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**Department of Defense
Fiscal Year (FY) 2024 Budget Estimates**

March 2023



Navy

Justification Book Volume 2 of 3

Aircraft Procurement, Navy

Budget Activity 05

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Department of Defense Appropriations Act, 2024

Aircraft Procurement, Navy

For construction, procurement, production, modification, and modernization of aircraft, equipment, including ordnance, spare parts, and accessories therefore; specialized equipment; expansion of public and private plants, including the land necessary therefore, and such lands and interests therein, may be acquired, and construction prosecuted thereon prior to approval of title; and procurement and installation of equipment, appliances, and machine tools in public and private plants; reserve plant and Government and contractor-owned equipment layaway, \$17,336,760,000 to remain available for obligation until September 30, 2026.

Fiscal Year (FY) 2024 Overseas Operations Costs funding accounted for in the Base budget total \$8,941,000.

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Department of Defense
 FY 2024 President's Budget
 Exhibit P-1 FY 2024 President's Budget
 Total Obligational Authority
 DoD Component Summary
 (Dollars in Thousands)

<u>Appropriation Summary</u>	FY 2022 Actuals	FY 2023 Less Supplementals Enactment	FY 2023 Supplementals Enactment*	FY 2023 Total Enactment	FY 2024 Request
Aircraft Procurement, Navy	17,714,627	19,031,864		19,031,864	17,336,760
Total Department of the Navy	17,714,627	19,031,864		19,031,864	17,336,760
Grand Total Department of Defense	17,714,627	19,031,864		19,031,864	17,336,760

*Includes enacted funding in the Ukraine Supplemental Appropriation Act, 2023 (Division B of Public Law 117-180) and Additional Ukraine Supplemental Appropriation Act, 2023 (Division M of Public Law 117-328).

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Department of the Navy
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 Total Obligational Authority
 Navy Summary
 (Dollars in Thousands)

<u>Appropriation Summary</u>	FY 2022 Actuals	FY 2023 Less Supplementals Enactment	FY 2023 Supplementals Enactment [*]	FY 2023 Total Enactment	FY 2024 Request
Aircraft Procurement, Navy	17,714,627	19,031,864		19,031,864	17,336,760
Total Department of the Navy	17,714,627	19,031,864		19,031,864	17,336,760

*Includes enacted funding in the Ukraine Supplemental Appropriation Act, 2023 (Division B of Public Law 117-180) and Additional Ukraine Supplemental Appropriation Act, 2023 (Division M of Public Law 117-328).

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Department of the Navy
 FY 2024 President's Budget
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 Total Obligational Authority
 1506N BA Summary
 (Dollars in Thousands)

Appropriation: Aircraft Procurement, Navy	FY 2022 Actuals	FY 2023 Less Supplementals Enactment	FY 2023 Supplementals Enactment ⁺	FY 2023 Total Enactment	FY 2024 Request
<u>Budget Activity</u>					
01. Combat aircraft	9,315,187	9,269,820		9,269,820	7,360,964
03. Trainer aircraft	163,490	227,617		227,617	289,141
04. Other aircraft	1,446,062	1,977,911		1,977,911	1,344,683
05. Modification of aircraft	3,579,320	4,336,956		4,336,956	4,692,040
06. Aircraft spares and repair parts	2,295,577	2,047,417		2,047,417	2,451,244
07. Aircraft support equipment and facilities	914,991	1,172,143		1,172,143	1,198,688
Total Aircraft Procurement, Navy	17,714,627	19,031,864		19,031,864	17,336,760

*Includes enacted funding in the Ukraine Supplemental Appropriation Act, 2023 (Division B of Public Law 117-180) and Additional Ukraine Supplemental Appropriation Act, 2023 (Division M of Public Law 117-328).

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Department of the Navy
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 (Dollars in Thousands)

Appropriation: 1506 Aircraft Procurement, Navy				FY 2022 Actuals		FY 2023 Less Supplementals Enactment		FY 2023 Supplementals Enactment	
Line No	Item Nomenclature	Ident Code	Se c	Quantity	Cost	Quantity	Cost	Quantity	Cost*
<u>Budget Activity 01: Combat aircraft</u>									
Combat Aircraft									
1	F/A-18E/F (Fighter) Hornet	A	U	12	977,161	8	671,065		
2	Joint Strike Fighter CV	A	U	15	(2,369,128)	19	(2,633,561)		
	Less: Advance Procurement (PY)				(-280,204)		(-290,161)		
				15	2,088,924	19	2,343,400		
3	Joint Strike Fighter CV								
	Advance Procurement (CY)				185,695		182,376		
	C (FY 2022 for FY 2023) (M)				(185,695)				
	C (FY 2023 for FY 2024) (M)						(182,376)		
	C (FY 2024 for FY 2025) (M)								
4	JSF STOVL		U	17	(2,450,068)	15	(2,199,491)		
	Less: Advance Procurement (PY)				(-260,785)		(-301,314)		
				17	2,189,283	15	1,898,177		
5	JSF STOVL								
	Advance Procurement (CY)				216,814		200,118		
	C (FY 2022 for FY 2023) (M)				(216,814)				

*Includes enacted funding in the Ukraine Supplemental Appropriation Act, 2023 (Division B of Public Law 117-180) and Additional Ukraine Supplemental Appropriation Act, 2023 (Division M of Public Law 117-328).

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 (Dollars in Thousands)

Appropriation: 1506 Aircraft Procurement, Navy

Line No	Item Nomenclature	Ident Code	Se c	FY 2023 Total Enactment		FY 2024 Request	
				Quantity	Cost	Quantity	Cost
<u>Budget Activity 01: Combat aircraft</u>							
Combat Aircraft							
1	F/A-18E/F (Fighter) Hornet	A	U	8	671,065	0	41,329
2	Joint Strike Fighter CV	A	U	19	(2,633,561)	19	(2,592,945)
	Less: Advance Procurement (PY)				(-290,161)		(-182,376)
				19	2,343,400	19	2,410,569
3	Joint Strike Fighter CV						
	Advance Procurement (CY)				182,376	0	189,425
	C (FY 2022 for FY 2023) (M)						
	C (FY 2023 for FY 2024) (M)				(182,376)		
	C (FY 2024 for FY 2025) (M)					0	(189,425)
4	JSF STOVL		U	15	(2,199,491)	16	(2,326,435)
	Less: Advance Procurement (PY)				(-301,314)		(-200,118)
				15	1,898,177	16	2,126,317
5	JSF STOVL						
	Advance Procurement (CY)				200,118	0	193,125
	C (FY 2022 for FY 2023) (M)						

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Department of the Navy
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 (Dollars in Thousands)

Appropriation: 1506 Aircraft Procurement, Navy				FY 2022 Actuals		FY 2023 Less Supplementals Enactment		FY 2023 Supplementals Enactment	
Line No	Item Nomenclature	Ident Code	Se c	Quantity	Cost	Quantity	Cost	Quantity	Cost*
	C (FY 2023 for FY 2024) (M)						(200,118)		
	C (FY 2024 for FY 2025) (M)								
6	CH-53K (Heavy Lift)	A	U	11	(1,651,010)	12	(2,059,513)		
	Less: Advance Procurement (PY)				(-164,616)		(-182,903)		
				11	1,486,394	12	1,876,610		
7	CH-53K (Heavy Lift)								
	Advance Procurement (CY)				182,903		341,692		
	C (FY 2022 for FY 2023) (M)				(182,903)				
	C (FY 2023 for FY 2024) (M)						(341,692)		
	C (FY 2024 for FY 2025) (M)								
8	V-22 (Medium Lift)		U	12	(1,098,263)	5	(508,700)		
	Less: Advance Procurement (PY)				(-24,337)				
				12	1,073,926	5	508,700		
9	H-1 Upgrades (UH-1Y/AH-1Z)	A	U	0	935				
10	P-8A Poseidon	A	U	0	44,595		41,521		
11	E-2D Adv Hawkeye	A	U	5	(944,475)	7	(1,407,727)		
	Less: Advance Procurement (PY)				(-194,856)		(-201,566)		

*Includes enacted funding in the Ukraine Supplemental Appropriation Act, 2023 (Division B of Public Law 117-180) and Additional Ukraine Supplemental Appropriation Act, 2023 (Division M of Public Law 117-328).

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 (Dollars in Thousands)

Appropriation: 1506 Aircraft Procurement, Navy

Line No	Item Nomenclature	Ident Code	Se c	FY 2023 Total Enactment		FY 2024 Request	
				Quantity	Cost	Quantity	Cost
	C (FY 2023 for FY 2024) (M)				(200,118)		
	C (FY 2024 for FY 2025) (M)					0	(193,125)
6	CH-53K (Heavy Lift)	A	U	12	(2,059,513)	15	(2,039,742)
	Less: Advance Procurement (PY)				(-182,903)		(-341,692)
				12	1,876,610	15	1,698,050
7	CH-53K (Heavy Lift)						
	Advance Procurement (CY)				341,692	0	456,567
	C (FY 2022 for FY 2023) (M)						
	C (FY 2023 for FY 2024) (M)				(341,692)		
	C (FY 2024 for FY 2025) (M)					0	(456,567)
8	V-22 (Medium Lift)		U	5	(508,700)	0	(27,216)
	Less: Advance Procurement (PY)						
				5	508,700	0	27,216
9	H-1 Upgrades (UH-1Y/AH-1Z)	A	U			0	4,292
10	P-8A Poseidon	A	U		41,521	0	31,257
11	E-2D Adv Hawkeye	A	U	7	(1,407,727)	0	(182,817)
	Less: Advance Procurement (PY)				(-201,566)		

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 1506N Detail
 (Dollars in Thousands)

Appropriation: 1506 Aircraft Procurement, Navy		FY 2022 Actuals		FY 2023 Less Supplementals Enactment		FY 2023 Supplementals Enactment			
Line No	Item Nomenclature	Ident Code	Se c	Quantity	Cost	Quantity	Cost	Quantity	Cost*
				5	749,619	7	1,206,161		
12	E-2D Adv Hawkeye Advance Procurement (CY) C (FY 2022 for FY 2023) (M)				118,938 (118,938)				
Total Combat aircraft				72	9,315,187	66	9,269,820		
<u>Budget Activity 03: Trainer aircraft</u>									
Trainer Aircraft									
13	Multi-Engine Training System (METS)	A	U			10	107,801		
14	Advanced Helicopter Training System	A	U	36	163,490	26	119,816		
Total Trainer aircraft				36	163,490	36	227,617		
<u>Budget Activity 04: Other aircraft</u>									
Other Aircraft									
15	KC-130J Less: Advance Procurement (PY)	A	U	6	(599,311) (-87,022)	5	(539,589) (-100,088)		
				6	512,289	5	439,501		

*Includes enacted funding in the Ukraine Supplemental Appropriation Act, 2023 (Division B of Public Law 117-180) and Additional Ukraine Supplemental Appropriation Act, 2023 (Division M of Public Law 117-328).

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 (Dollars in Thousands)

Appropriation: 1506 Aircraft Procurement, Navy

Line No	Item Nomenclature	Ident Code	Se c	FY 2023 Total Enactment		FY 2024 Request	
				Quantity	Cost	Quantity	Cost
				7	1,206,161	0	182,817
12	E-2D Adv Hawkeye Advance Procurement (CY) C (FY 2022 for FY 2023) (M)						
Total Combat aircraft				66	9,269,820	50	7,360,964
<u>Budget Activity 03: Trainer aircraft</u>							
Trainer Aircraft							
13	Multi-Engine Training System (METS)	A	U	10	107,801	26	289,141
14	Advanced Helicopter Training System	A	U	26	119,816		
Total Trainer aircraft				36	227,617	26	289,141
<u>Budget Activity 04: Other aircraft</u>							
Other Aircraft							
15	KC-130J Less: Advance Procurement (PY)	A	U	5	(539,589)	2	(270,413)
					(-100,088)		(-29,122)
				5	439,501	2	241,291

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 (Dollars in Thousands)

Appropriation: 1506 Aircraft Procurement, Navy				FY 2022 Actuals		FY 2023 Less Supplementals Enactment		FY 2023 Supplementals Enactment	
Line No	Item Nomenclature	Ident Code	Se c	Quantity	Cost	Quantity	Cost	Quantity	Cost*
16	KC-130J Advance Procurement (CY)				68,088		29,122		
	C (FY 2022 for FY 2023) (M)				(68,088)				
	C (FY 2023 for FY 2024) (M)						(29,122)		
17	MQ-4 Triton	A	U	2	(483,151)	3	(584,192)		
	Less: Advance Procurement (PY)								
				2	483,151	3	584,192		
18	MQ-4 Triton Advance Procurement (CY)						70,335		
	C (FY 2023 for FY 2024) (M)						(70,335)		
19	MQ-8 UAV	B	U	0	49,249				
20	STUASLO UAV		U	0	13,151		2,703		
21	MQ-25	A	U			1	(744,181)		
	Less: Advance Procurement (PY)						(-47,468)		
						1	696,713		
22	MQ-25 Advance Procurement (CY)				47,468		51,463		

*Includes enacted funding in the Ukraine Supplemental Appropriation Act, 2023 (Division B of Public Law 117-180) and Additional Ukraine Supplemental Appropriation Act, 2023 (Division M of Public Law 117-328).

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 (Dollars in Thousands)

Appropriation: 1506 Aircraft Procurement, Navy

Line No	Item Nomenclature	Ident Code	Se c	FY 2023 Total Enactment		FY 2024 Request	
				Quantity	Cost	Quantity	Cost
16	KC-130J						
	Advance Procurement (CY)				29,122		
	C (FY 2022 for FY 2023) (M)						
	C (FY 2023 for FY 2024) (M)				(29,122)		
17	MQ-4 Triton	A	U	3	(584,192)	2	(486,345)
	Less: Advance Procurement (PY)						(-70,335)
				3	584,192	2	416,010
18	MQ-4 Triton						
	Advance Procurement (CY)				70,335		
	C (FY 2023 for FY 2024) (M)				(70,335)		
19	MQ-8 UAV	B	U			0	1,546
20	STUASLO UAV		U		2,703		
21	MQ-25	A	U	1	(744,181)	3	(597,160)
	Less: Advance Procurement (PY)				(-47,468)		(-51,463)
				1	696,713	3	545,697
22	MQ-25						
	Advance Procurement (CY)				51,463	0	50,576

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 (Dollars in Thousands)

Appropriation: 1506 Aircraft Procurement, Navy			FY 2022 Actuals		FY 2023 Less Supplementals Enactment		FY 2023 Supplementals Enactment		
Line No	Item Nomenclature	Ident Code	Se c	Quantity	Cost	Quantity	Cost	Quantity	Cost*
	C (FY 2022 for FY 2023) (M)				(47,468)				
	C (FY 2023 for FY 2024) (M)						(51,463)		
	C (FY 2024 for FY 2025) (M)								
23	Marine Group 5 UAS	A	U	8	272,666	5	103,882		
Total Other aircraft				16	1,446,062	14	1,977,911		
<u>Budget Activity 05: Modification of aircraft</u>									
Modification of Aircraft									
24	F-18 A-D Unique	A	U	0	162,095		141,514		
25	F-18E/F and EA-18G Modernization and Sustainm	A	U	0	445,721		552,849		
26	Marine Group 5 UAS Series	A	U	0	1,982		86,116		
27	AEA Systems		U	0	20,221		25,058		
28	AV-8 Series	A	U	0	14,626		26,657		
29	Infrared Search and Track (IRST)	A	U	0	120,377		121,039		
30	Adversary	A	U	0	137,875		105,188		

*Includes enacted funding in the Ukraine Supplemental Appropriation Act, 2023 (Division B of Public Law 117-180) and Additional Ukraine Supplemental Appropriation Act, 2023 (Division M of Public Law 117-328).

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Department of the Navy
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 1506N Detail
 (Dollars in Thousands)

Appropriation: 1506 Aircraft Procurement, Navy

Line No	Item Nomenclature	Ident Code	Se c	FY 2023 Total Enactment		FY 2024 Request	
				Quantity	Cost	Quantity	Cost
	C (FY 2022 for FY 2023) (M)						
	C (FY 2023 for FY 2024) (M)				(51,463)		
	C (FY 2024 for FY 2025) (M)					0	(50,576)
23	Marine Group 5 UAS	A	U	5	103,882	5	89,563
Total Other aircraft				14	1,977,911	12	1,344,683

Budget Activity 05: Modification of aircraft

Modification of Aircraft

24	F-18 A-D Unique	A	U		141,514	0	116,551
25	F-18E/F and EA-18G Modernization and Sustainm	A	U		552,849	0	605,416
26	Marine Group 5 UAS Series	A	U		86,116	0	98,063
27	AEA Systems		U		25,058	0	24,110
28	AV-8 Series	A	U		26,657	0	22,829
29	Infrared Search and Track (IRST)	A	U		121,039	0	179,193
30	Adversary	A	U		105,188	0	69,336

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Department of the Navy
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 (Dollars in Thousands)

Appropriation: 1506 Aircraft Procurement, Navy				FY 2022 Actuals		FY 2023 Less Supplementals Enactment		FY 2023 Supplementals Enactment	
Line No	Item Nomenclature	Ident Code	Se c	Quantity	Cost	Quantity	Cost	Quantity	Cost*
31	F-18 Series	A	U	0	327,000		461,118		
32	H-53 Series	A	U	0	108,415		40,151		
33	MH-60 Series	A	U	0	94,708		136,238		
34	H-1 Series	A	U	0	118,778		122,498		
35	EP-3 Series	A	U	0	28,848		8,492		
36	E-2 Series	A	U	0	199,869		188,897		
37	Trainer A/C Series	A	U	0	7,849		9,568		
38	C-2A	A	U	0	2,843				
39	C-130 Series	A	U	0	103,539		132,170		
40	FEWSG	A	U	0	734		695		
41	Cargo/Transport A/C Series	A	U	0	5,371		10,902		
42	E-6 Series	A	U	0	113,247		129,049		

*Includes enacted funding in the Ukraine Supplemental Appropriation Act, 2023 (Division B of Public Law 117-180) and Additional Ukraine Supplemental Appropriation Act, 2023 (Division M of Public Law 117-328).

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 (Dollars in Thousands)

Appropriation: 1506 Aircraft Procurement, Navy

Line No	Item Nomenclature	Ident Code	Se c	FY 2023 Total Enactment		FY 2024 Request	
				Quantity	Cost	Quantity	Cost
31	F-18 Series	A	U		461,118	0	640,236
32	H-53 Series	A	U		40,151	0	41,414
33	MH-60 Series	A	U		136,238	0	106,495
34	H-1 Series	A	U		122,498	0	114,284
35	EP-3 Series	A	U		8,492	0	8,548
36	E-2 Series	A	U		188,897	0	183,246
37	Trainer A/C Series	A	U		9,568	0	16,376
38	C-2A	A	U				
39	C-130 Series	A	U		132,170	0	198,220
40	FEWSG	A	U		695	0	651
41	Cargo/Transport A/C Series	A	U		10,902	0	13,930
42	E-6 Series	A	U		129,049	0	164,571

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 (Dollars in Thousands)

Appropriation: 1506 Aircraft Procurement, Navy				FY 2022 Actuals		FY 2023 Less Supplementals Enactment		FY 2023 Supplementals Enactment	
Line No	Item Nomenclature	Ident Code	Se c	Quantity	Cost	Quantity	Cost	Quantity	Cost*
43	Executive Helicopters Series	A	U	0	40,158		55,265		
44	T-45 Series	A	U	0	155,366		199,356		
45	Power Plant Changes	A	U	0	28,923		24,685		
46	JPATS Series	A	U	0	20,958		19,780		
47	Aviation Life Support Mods	A	U	0	2,416		1,143		
48	Common ECM Equipment	A	U	0	118,071		118,122		
49	Common Avionics Changes	A	U	0	102,861		128,120		
50	Common Defensive Weapon System	A	U	0	5,422		6,373		
51	ID Systems	A	U	0	13,100		3,828		
52	P-8 Series		U	0	115,940		241,987		
53	MAGTF EW for Aviation	A	U	0	29,149		24,684		
54	MQ-8 Series		U	0	31,566		9,846		

*Includes enacted funding in the Ukraine Supplemental Appropriation Act, 2023 (Division B of Public Law 117-180) and Additional Ukraine Supplemental Appropriation Act, 2023 (Division M of Public Law 117-328).

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Appropriation: 1506 Aircraft Procurement, Navy

Line No	Item Nomenclature	Ident Code	Se c	FY 2023 Total Enactment		FY 2024 Request	
				Quantity	Cost	Quantity	Cost
43	Executive Helicopters Series	A	U		55,265	0	60,498
44	T-45 Series	A	U		199,356	0	170,357
45	Power Plant Changes	A	U		24,685	0	21,079
46	JPATS Series	A	U		19,780	0	28,005
47	Aviation Life Support Mods	A	U		1,143		
48	Common ECM Equipment	A	U		118,122	0	53,614
49	Common Avionics Changes	A	U		128,120	0	136,199
50	Common Defensive Weapon System	A	U		6,373	0	6,585
51	ID Systems	A	U		3,828	0	13,085
52	P-8 Series		U		241,987	0	316,168
53	MAGTF EW for Aviation	A	U		24,684	0	24,901
54	MQ-8 Series		U		9,846	0	14,700

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Appropriation: 1506 Aircraft Procurement, Navy				FY 2022 Actuals		FY 2023 Less Supplementals Enactment		FY 2023 Supplementals Enactment	
Line No	Item Nomenclature	Ident Code	Se c	Quantity	Cost	Quantity	Cost	Quantity	Cost*
55	V-22 (Tilt/Rotor ACFT) Osprey	B	U	0	250,512		233,128		
56	Next Generation Jammer (NGJ)	A	U	0	255,393		463,146		
57	F-35 STOVL Series	A	U	0	161,776		189,528		
58	F-35 CV Series	A	U	0	118,933		173,349		
59	QRC	A	U	0	93,563		47,864		
60	MQ-4 Series	A	U	0	7,046		91,977		
61	RQ-21 Series	A	U	0	14,069		6,576		
Total Modification of aircraft				0	3,579,320		4,336,956		
 <u>Budget Activity 06: Aircraft spares and repair parts</u>									
Aircraft Spares and Repair Parts									
62	Spares and Repair Parts	A	U	0	2,295,577		2,047,417		
Total Aircraft spares and repair parts				0	2,295,577		2,047,417		
 <u>Budget Activity 07: Aircraft support equipment and facilities</u>									

*Includes enacted funding in the Ukraine Supplemental Appropriation Act, 2023 (Division B of Public Law 117-180) and Additional Ukraine Supplemental Appropriation Act, 2023 (Division M of Public Law 117-328).

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Department of the Navy
 FY 2024 President's Budget
 Exhibit P-1 FY 2024 President's Budget
 Total Obligational Authority
 1506N Detail
 (Dollars in Thousands)

Appropriation: 1506 Aircraft Procurement, Navy

Line No	Item Nomenclature	Ident Code	Se c	FY 2023 Total Enactment		FY 2024 Request	
				Quantity	Cost	Quantity	Cost
55	V-22 (Tilt/Rotor ACFT) Osprey	B	U		233,128	0	215,997
56	Next Generation Jammer (NGJ)	A	U		463,146	0	426,396
57	F-35 STOVL Series	A	U		189,528	0	311,921
58	F-35 CV Series	A	U		173,349	0	166,909
59	QRC	A	U		47,864	0	28,206
60	MQ-4 Series	A	U		91,977	0	93,951
61	RQ-21 Series	A	U		6,576		
Total Modification of aircraft					4,336,956	0	4,692,040

Budget Activity 06: Aircraft spares and repair parts

Aircraft Spares and Repair Parts

62	Spares and Repair Parts	A	U		2,047,417	0	2,451,244
Total Aircraft spares and repair parts					2,047,417	0	2,451,244

Budget Activity 07: Aircraft support equipment and facilities

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Department of the Navy
 FY 2024 President's Budget
 Exhibit P-1 FY 2024 President's Budget
 Total Obligational Authority
 1506N Detail
 (Dollars in Thousands)

Appropriation: 1506 Aircraft Procurement, Navy				FY 2022 Actuals		FY 2023 Less Supplementals Enactment		FY 2023 Supplementals Enactment	
Line No	Item Nomenclature	Ident Code	Se c	Quantity	Cost	Quantity	Cost	Quantity	Cost*
Aircraft Support Equip & Facilities									
63	Common Ground Equipment	A	U	0	497,362		528,433		
64	Aircraft Industrial Facilities	A	U	0	80,500		101,559		
65	War Consumables	A	U	0	42,431		40,316		
66	Other Production Charges	A	U	0	21,374		46,403		
67	Special Support Equipment	A	U	0	271,774		455,432		
68	Judgment Fund	A	U	0	1,453				
69	Cancelled Account Adjustments	A	U	0	97				
Total Aircraft support equipment and facilities				0	914,991		1,172,143		
Total Aircraft Procurement, Navy				124	17,714,627	116	19,031,864		

*Includes enacted funding in the Ukraine Supplemental Appropriation Act, 2023 (Division B of Public Law 117-180) and Additional Ukraine Supplemental Appropriation Act, 2023 (Division M of Public Law 117-328).

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Department of the Navy
 FY 2024 President's Budget
 Exhibit P-1 FY 2024 President's Budget
 Total Obligational Authority
 1506N Detail
 (Dollars in Thousands)

Appropriation: 1506 Aircraft Procurement, Navy

Line No	Item Nomenclature	Ident Code	Se c	FY 2023 Total Enactment		FY 2024 Request	
				Quantity	Cost	Quantity	Cost
Aircraft Support Equip & Facilities							
63	Common Ground Equipment	A	U		528,433	0	566,156
64	Aircraft Industrial Facilities	A	U		101,559	0	133,815
65	War Consumables	A	U		40,316	0	44,632
66	Other Production Charges	A	U		46,403	0	49,907
67	Special Support Equipment	A	U		455,432	0	404,178
68	Judgment Fund	A	U				
69	Cancelled Account Adjustments	A	U				
Total Aircraft support equipment and facilities					1,172,143	0	1,198,688
Total Aircraft Procurement, Navy				116	19,031,864	88	17,336,760

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Department of Defense
FY 2024 President's Budget
Exhibit P-1 FY 2024 President's Budget
Total Obligational Authority
DoD Component Summary
(Dollars in Thousands)

<u>Appropriation Summary</u>	<u>FY 2023 Overseas Operations Costs (OOC)*</u>	<u>FY 2024 Overseas Operations Costs (OOC)*</u>
Aircraft Procurement, Navy	5,823	8,941
Total Department of the Navy	5,823	8,941
Grand Total Department of Defense	5,823	8,941

*FY 2023 and FY 2024 Overseas Operations Costs (OOC) numbers are a subset of the baseline submission.

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Department of the Navy
FY 2024 President's Budget
Exhibit P-1 FY 2024 President's Budget
Total Obligational Authority
Navy Summary
(Dollars in Thousands)

<u>Appropriation Summary</u>	<u>FY 2023 Overseas Operations Costs (OOC)*</u>	<u>FY 2024 Overseas Operations Costs (OOC)*</u>
Aircraft Procurement, Navy	5,823	8,941
Total Department of the Navy	5,823	8,941

*FY 2023 and FY 2024 Overseas Operations Costs (OOC) numbers are a subset of the baseline submission.

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Department of the Navy
FY 2024 President's Budget
Exhibit P-1 FY 2024 President's Budget
Total Obligational Authority
1506N BA Summary
(Dollars in Thousands)

Appropriation: **Aircraft Procurement, Navy**

	FY 2023 Overseas Operations Costs (OOC)*	FY 2024 Overseas Operations Costs (OOC)*
<u>Budget Activity</u>		
05. Modification of aircraft	5,823	8,941
Total Aircraft Procurement, Navy	5,823	8,941

*FY 2023 and FY 2024 Overseas Operations Costs (OOC) numbers are a subset of the baseline submission.

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Department of the Navy
 FY 2024 President's Budget
 Exhibit P-1 FY 2024 President's Budget
 Total Obligational Authority
 1506N Detail
 (Dollars in Thousands)

Appropriation: 1506 Aircraft Procurement, Navy				FY 2023 Overseas		FY 2024 Overseas	
				Operations Costs (OOC)		Operations Costs (OOC)	
Line		Ident	Se				
No	Item Nomenclature	Code	c	Quantity	Cost*	Quantity	Cost*
<u>Budget Activity 05: Modification of aircraft</u>							
Modification of Aircraft							
35	EP-3 Series	A	U		5,823	0	3,931
59	QRC	A	U			0	5,010
Total Modification of aircraft					5,823	0	8,941
Total Aircraft Procurement, Navy					5,823	0	8,941

*FY 2023 and FY 2024 Overseas Operations Costs (OOC) numbers are a subset of the baseline submission.

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2	01	01	0147	Joint Strike Fighter CV.....	Volume 1 - 13
3	01	01	0147	Joint Strike Fighter CV, Advance Procurement.....	Volume 1 - 35
4	01	01	0152	JSF STOVL.....	Volume 1 - 41
5	01	01	0152	JSF STOVL, Advance Procurement.....	Volume 1 - 55
6	01	01	0158	CH-53K (Heavy Lift).....	Volume 1 - 61
7	01	01	0158	CH-53K (Heavy Lift), Advance Procurement.....	Volume 1 - 77
8	01	01	0164	V-22 (Medium Lift).....	Volume 1 - 85
9	01	01	0178	UH-1Y/AH-1Z.....	Volume 1 - 103
10	01	01	0193	P-8A Poseidon.....	Volume 1 - 109
11	01	01	0195	E-2D AHE.....	Volume 1 - 119
12	01	01	0195	E-2D AHE, Advance Procurement.....	Volume 1 - 131

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17	04	01	0442	MQ-4 TRITON.....	Volume 1 - 169
18	04	01	0442	MQ-4 TRITON, Advance Procurement.....	Volume 1 - 185
19	04	01	0443	MQ-8 UAV.....	Volume 1 - 191
20	04	01	0444	STUASLO.....	Volume 1 - 195
21	04	01	0449	MQ-25.....	Volume 1 - 201
22	04	01	0449	MQ-25, Advance Procurement.....	Volume 1 - 213
23	04	01	0452	Marine Group 5 UAS.....	Volume 1 - 217

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26	05	01	0507	Marine Group 5 UAS Series.....	Volume 2 - 77
27	05	01	0513	AEA Systems.....	Volume 2 - 89
28	05	01	0514	AV-8 Series.....	Volume 2 - 97
29	05	01	0515	Infrared Search and Track (IRST).....	Volume 2 - 113
30	05	01	0522	Adversary.....	Volume 2 - 119
31	05	01	0525	F-18 Series.....	Volume 2 - 147
32	05	01	0528	H-53 Series.....	Volume 2 - 227
33	05	01	0530	MH-60 Series.....	Volume 2 - 263
34	05	01	0532	H-1 Series.....	Volume 2 - 297
35	05	01	0537	EP-3 Series.....	Volume 2 - 321
36	05	01	0544	E-2 Series.....	Volume 2 - 331
37	05	01	0549	Trainer Acft Series.....	Volume 2 - 377
38	05	01	0556	C-2A.....	Volume 2 - 401
39	05	01	0560	C-130 Series.....	Volume 2 - 415

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43	05	01	0566	Executive Helicopters Series.....	Volume 2 - 523
44	05	01	0569	T-45 Series.....	Volume 2 - 543
45	05	01	0570	Power Plant Changes.....	Volume 2 - 583
46	05	01	0571	JT Primary Acft Trnr Sys (JPATS).....	Volume 2 - 589
47	05	01	0575	Aviation Life Support Mods.....	Volume 2 - 609
48	05	01	0576	Common ECM Equipment.....	Volume 2 - 623
49	05	01	0577	Common Avionics Changes.....	Volume 2 - 651
50	05	01	0581	Common Defensive Weapon System.....	Volume 2 - 687
51	05	01	0582	ID Sys.....	Volume 2 - 695
52	05	01	0586	P-8 Series.....	Volume 2 - 701
53	05	01	0587	MAGTF EW for Aviation.....	Volume 2 - 721
54	05	01	0588	MQ-8 Series.....	Volume 2 - 729
55	05	01	0590	V-22 (Tilt/Rotor Acft) Osprey.....	Volume 2 - 751
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60	05	01	0596	MQ-4 Series.....	Volume 2 - 885
61	05	01	0598	RQ-21 Series.....	Volume 2 - 909

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AV-8 Series	0514	28	05	01.....	Volume 2 - 97
Advanced Helicopter Training System	0344	14	03	01.....	Volume 1 - 143
Adversary	0522	30	05	01.....	Volume 2 - 119
Aircraft Industrial Facilities	0715	64	07	01.....	Volume 3 - 61
Aviation Life Support Mods	0575	47	05	01.....	Volume 2 - 609
C-130 Series	0560	39	05	01.....	Volume 2 - 415
C-2A	0556	38	05	01.....	Volume 2 - 401
CH-53K (Heavy Lift)	0158	6	01	01.....	Volume 1 - 61
CH-53K (Heavy Lift), Advance Procurement	0158	7	01	01.....	Volume 1 - 77
Cancelled Account Adjustments	0790	69	07	01.....	Volume 3 - 91
Cargo/Transport Acft Series	0562	41	05	01.....	Volume 2 - 455
Common Avionics Changes	0577	49	05	01.....	Volume 2 - 651
Common Defensive Weapon System	0581	50	05	01.....	Volume 2 - 687
Common ECM Equipment	0576	48	05	01.....	Volume 2 - 623
Common Ground Equipment	0705	63	07	01.....	Volume 3 - 11
E-2 Series	0544	36	05	01.....	Volume 2 - 331

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E-6 Series	0564	42	05	01.....	Volume 2 - 471
EP-3 Series	0537	35	05	01.....	Volume 2 - 321
Executive Helicopters Series	0566	43	05	01.....	Volume 2 - 523
F-18 A-D Unique	0502	24	05	01.....	Volume 2 - 1
F-18 Series	0525	31	05	01.....	Volume 2 - 147
F-18E/F and EA-18G Modernization and Sustainment	0505	25	05	01.....	Volume 2 - 41
F-35 CV Series	0593	58	05	01.....	Volume 2 - 845
F-35 STOVL Series	0592	57	05	01.....	Volume 2 - 807
FA-18E/F	0145	1	01	01.....	Volume 1 - 1
Flt Elect Wrfr Supt Grp (FEWSG)	0561	40	05	01.....	Volume 2 - 449
H-1 Series	0532	34	05	01.....	Volume 2 - 297
H-53 Series	0528	32	05	01.....	Volume 2 - 227
ID Sys	0582	51	05	01.....	Volume 2 - 695
Infrared Search and Track (IRST)	0515	29	05	01.....	Volume 2 - 113
JSF STOVL	0152	4	01	01.....	Volume 1 - 41
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KC-130J, Advance Procurement	0416	16	04	01.....	Volume 1 - 163
MAGTF EW for Aviation	0587	53	05	01.....	Volume 2 - 721
MH-60 Series	0530	33	05	01.....	Volume 2 - 263
MQ-25	0449	21	04	01.....	Volume 1 - 201
MQ-25, Advance Procurement	0449	22	04	01.....	Volume 1 - 213
MQ-4 Series	0596	60	05	01.....	Volume 2 - 885
MQ-4 TRITON	0442	17	04	01.....	Volume 1 - 169
MQ-4 TRITON, Advance Procurement	0442	18	04	01.....	Volume 1 - 185
MQ-8 Series	0588	54	05	01.....	Volume 2 - 729
MQ-8 UAV	0443	19	04	01.....	Volume 1 - 191
Marine Group 5 UAS	0452	23	04	01.....	Volume 1 - 217
Marine Group 5 UAS Series	0507	26	05	01.....	Volume 2 - 77
Multi-Engine Training System (METS)	0343	13	03	01.....	Volume 1 - 135
Next Generation Jammer (NGJ)	0591	56	05	01.....	Volume 2 - 799
Other Production Charges	0725	66	07	01.....	Volume 3 - 81
P-8 Series	0586	52	05	01.....	Volume 2 - 701
P-8A Poseidon	0193	10	01	01.....	Volume 1 - 109

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QRC	0595	59	05	01.....	Volume 2 - 883
RQ-21 Series	0598	61	05	01.....	Volume 2 - 909
STUASLO	0444	20	04	01.....	Volume 1 - 195
Spares and Repair Parts	0605	62	06	01.....	Volume 3 - 1
T-45 Series	0569	44	05	01.....	Volume 2 - 543
Trainer Acft Series	0549	37	05	01.....	Volume 2 - 377
UH-1Y/AH-1Z	0178	9	01	01.....	Volume 1 - 103
V-22 (Medium Lift)	0164	8	01	01.....	Volume 1 - 85
V-22 (Tilt/Rotor Acft) Osprey	0590	55	05	01.....	Volume 2 - 751
War Consumables	0720	65	07	01.....	Volume 3 - 69

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Exhibit P-40, Budget Line Item Justification: PB 2024 Navy **Date:** March 2023

Appropriation / Budget Activity / Budget Sub Activity: 1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft	P-1 Line Item Number / Title: 0502 / F-18 A-D Unique
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
--	---	--

Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	164.491	162.095	141.514	116.551	0.000	116.551	103.068	102.697	86.402	88.310	217.192	1,182.320
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	164.491	162.095	141.514	116.551	0.000	116.551	103.068	102.697	86.402	88.310	217.192	1,182.320
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	164.491	162.095	141.514	116.551	0.000	116.551	103.068	102.697	86.402	88.310	217.192	1,182.320

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

LI 0502 was established in FY2021 in order to provide greater transparency of F/A-18C/D modification efforts. OSIPs 11-99, 21-00, & 10-21 can be found in LI-0525 for FY20 and prior. FY21 and out resides in LI-0502.

This line item funds modifications to the F/A-18C/D aircraft.

The F/A-18 Naval Strike Fighter is a twin-engine, mid-wing, multi-mission tactical aircraft. The F/A-18 is employed in both Navy and Marine Corps squadrons. Commencing with the FY 1988 procurement, the single seat aircraft include a night attack capability. The F/A-18 can be missionized through selected use of external equipment to accomplish specific fighter or attack missions. This commonality provides the Operational Commander more flexibility in employing tactical aircraft in a dynamic scenario. The primary design mission for the F/A-18 is a strike fighter which includes the traditional fighter applications, such as fighter escort and fleet air defense, combined with the attack applications, such as interdiction, close air support and the attack of maritime targets. Since fighter capabilities are available in either mission, a robust self-defense capability is retained.

Current aircraft inventory and Flight hours flown as of 9 February 2023:

F/A-18C - 162 (150 Active, 12 Reserve): service life 8,000 hours (current); 10,000 hours (extended); average service life remaining, 247 hours (current); 2,247 hours (extended)

F/A-18D - 85 (85 Active, 0 Reserve): service life 8,000 hours (current); 10,000 hours (extended); average service life remaining, 327 hours (current); 2,327 hours (extended)

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Exhibit P-40, Budget Line Item Justification: PB 2024 Navy **Date:** March 2023

Appropriation / Budget Activity / Budget Sub Activity:
1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft

P-1 Line Item Number / Title:
0502 / F-18 A-D Unique

ID Code (A=Service Ready, B=Not Service Ready): A **Program Elements for Code B Items:** N/A **Other Related Program Elements:** N/A

Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	1 / F/A-18 Aircraft Structural Life Management Plan (SLMP) (OSIP 11-99) CBR+ (SAFETY / LIFE EXTENSION)				- / 40.790	- / 30.028	- / 41.615	- / 27.132	- / 0.000	- / 27.132
P-3a	2 / USMC F/A-18 Upgrade ECP-583 (OSIP 21-00) (AVIONICS UPGRADE)				- / 76.280	- / 112.512	- / 68.255	- / 47.491	- / 0.000	- / 47.491
P-3a	3 / F/A-18 Air Vehicle A/B/C/D Readiness (OSIP 10-21) (Readiness)				- / 47.421	- / 19.555	- / 31.644	- / 41.928	- / 0.000	- / 41.928
P-40	Total Gross/Weapon System Cost				- / 164.491	- / 162.095	- / 141.514	- / 116.551	- / 0.000	- / 116.551

Exhibits Schedule					FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	1 / F/A-18 Aircraft Structural Life Management Plan (SLMP) (OSIP 11-99) CBR+ (SAFETY / LIFE EXTENSION)				- / 1.664	- / 1.316	- / 1.200	- / 1.108	- / 9.301	- / 154.154
P-3a	2 / USMC F/A-18 Upgrade ECP-583 (OSIP 21-00) (AVIONICS UPGRADE)				- / 58.483	- / 58.550	- / 41.135	- / 45.355	- / 77.866	- / 585.927
P-3a	3 / F/A-18 Air Vehicle A/B/C/D Readiness (OSIP 10-21) (Readiness)				- / 42.921	- / 42.831	- / 44.067	- / 41.847	- / 130.025	- / 442.239
P-40	Total Gross/Weapon System Cost				- / 103.068	- / 102.697	- / 86.402	- / 88.310	- / 217.192	- / 1,182.320

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

Justification:

The overall goal of the modifications budgeted in FY 2024 is to implement commonality/capability and structural safety and reliability improvements.

Marine Corps F/A-18C/D are, and will remain, the primary bridging platform to the F-35B/C as defined in the Marine Corps 2022 Aviation Plan. To accomplish this, the F/A-18 Hornet must remain lethal, survivable, and relevant through 2030, and requires modernization upgrades to be installed no later than FY25. These upgrades include the APG-79(V)4 AESA Radar, Integrated Defensive Electronic Countermeasures (IDECM) , and NAVWAR (GPS Anti-jam capability). In order to fly F/A-18C/D aircraft to 2030, the service life of the airframe must be extended from 6,000 hour to 10,000 and subsystem readiness degraders must be addressed. Together, these modifications and upgrades will ensure the F/A-18C/D retains relevant combat effectiveness until Marine TACAIR has fully transitioned to the F-35.

OSIP 11-99 F/A-18 Aircraft Structural Life Management Plan (SLMP) incorporates structural enhancements and changes required to attain F/A-18 service life and maintain sufficient aircraft inventory to meet fleet operational requirements through FY 2030.

OSIP 21-00 USMC F/A-18 Upgrade supports United States Marine Corps (USMC) F/A-18C/D avionics capabilities, including both hardware and software. This effort is critical to meet the documented Marine Corps requirement for tactical aircraft that can support the National Defense Strategy and National Military Strategy through 2030. Specifically, this OSIP will implement hardware and software upgrades necessary to maintain a credible and capable USMC F/A-18 fleet while also upgrading the Hornet platform so that it can fully exploit the lethality available from a 4th / 5th generation TACAIR mix required to meet Operational Plan (OPLAN) requirements until the F-35 transition completes in FY30.

OSIP 10-21 F/A-18 Air Vehicle C-D Readiness supports the correction of readiness degraders impacting F/A-18C/D aircraft cost per flight hour; Reliability, Maintainability, and Availability (RM&A); obsolescence; and reduction of life-cycle costs necessary to support Marine Tac Air transition to the F-35.

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft		P-1 Line Item Number / Title: 0502 / F-18 A-D Unique
ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
Line Item MDAP/MAIS Code: N/A		

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0502 / F-18 A-D Unique	Modification Number / Title: 1 / F/A-18 Aircraft Structural Life Management Plan (SLMP) (OSIP 11-99) CBR+

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	40.790	30.028	41.615	27.132	0.000	27.132	1.664	1.316	1.200	1.108	9.301	154.154
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	40.790	30.028	41.615	27.132	0.000	27.132	1.664	1.316	1.200	1.108	9.301	154.154
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	40.790	30.028	41.615	27.132	0.000	27.132	1.664	1.316	1.200	1.108	9.301	154.154

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Incorporation of structural enhancements and changes is required to attain F/A-18 service life and maintain sufficient aircraft inventory to meet fleet operational requirements through FY 2030. Structural enhancements and changes include resolution of discrepancies identified as a result of structural test-16 and in-service experience. These Service Life Extension Program (SLEP) enhancements and changes to extend the life from 6,000 hours to 10,000 hours include: modifications to allow the entire airframe to extend flight hours; modifications to ensure structures currently limited to 78% of design life can achieve 100% life; modifications to ensure landing gear, catapult and attachment components can extend total landings. Additionally, support for Engineering Change Proposal (ECP) completion and release, installation engineering analysis, and kit procurements are required to sustain this effort. The unacceptable alternative to retrofitting would be the failure to reach full fatigue life for these aircraft. In many cases, the mission capability of the aircraft would be adversely affected in addition to its reduced service life. As a result, aircraft may be prematurely removed from useful service.

OSIP 11-99 was significantly reduced as a result of Navy and Marine Corps divestments from BLI 0502.

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0502 / F-18 A-D Unique	Modification Number / Title: 1 / F/A-18 Aircraft Structural Life Management Plan (SLMP) (OSIP 11-99) CBR+

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Models of Systems Affected: F/A-18 C/D	Modification Type: SAFETY / LIFE EXTENSION	Related RDT&E PEs:
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Financial Plan <small>(* Indicates the modification is being installed organically and no installation funds are required.)</small>	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)

Procurement												
1.1.1) ECP 627 - AFC-648 Bulkhead Beaded Panel, Y357.500 - NonOrganic <i>Installation 1 of 11</i>	10 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	10 / 0.000
1.1.2) ECP-0629 AFC-651 FCF 700 Upper Skin - NonOrganic <i>Installation 2 of 11</i>	10 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	10 / 0.000
1.1.3) ECP-630 - AFC-652 Crease Longerons Straps (Y453 & Y488) - NonOrganic <i>Installation 3 of 11</i>	60 / 0.000	- / -	30 / 2.284	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	90 / 2.284
1.1.4) ECP-630R2 - AFC-686 Longerons Former-Upper Segment Y518 - NonOrganic <i>Installation 4 of 11</i>	100 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	100 / 0.000
1.1.6) ECP-630R2 - AFC-688 Upper 701 Skin Former, Fuselage Upper-Center Y534 - NonOrganic <i>Installation 4 of 11</i>	34 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	34 / 0.000
1.1.5) ECP-630R2 - AFC-687 Support, Floor-Fuel Bay, Y470.5 - Y488 - NonOrganic <i>Installation 5 of 11</i>	36 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	36 / 0.000
1.1.7) ECP 631 AYC-1725 IW Multiple Locations L&R - NonOrganic <i>Installation 6 of 11</i>	2 / 0.000	- / -	12 / 7.121	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	14 / 7.121
1.1.8) ECP 631R1 - AYC-1725 Inner Wing Rib #6 - NonOrganic <i>Installation 7 of 11</i>	2 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.000
1.1.10) ECP 632C1 AYC-1745 Multi Locations, Intermediate 1, 2, Rear Spars - NonOrganic <i>Installation 7 of 11</i>	2 / 0.000	- / -	18 / 8.457	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	20 / 8.457
1.1.9) ECP 631 C1-AYC-1744 Spar-Rear, Wing Panel, Inner - NonOrganic <i>Installation 8 of 11</i>	2 / 0.000	- / -	15 / 1.494	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	17 / 1.494
1.1.11) ECP-632R1 - AYC-1745 Outer Wing Panel (C2) - NonOrganic <i>Installation 9 of 11</i>	2 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.000
1.1.12) ECP 633 AFC-650 AF Door 68 Doubler L&R - NonOrganic <i>Installation 9 of 11</i>	300 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	300 / 0.000
1.1.13) ECP 633C1 - AFC-668 AFT Lower Longerons; Above Door 68 L&R - NonOrganic <i>Installation 10 of 11</i>	60 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	60 / 0.000
1.1.14) ECP 904 CBR+ WRFLE SLEP - Day/Night Attack - NonOrganic ⁽¹⁾	3 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3 / 0.000

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0502 / F-18 A-D Unique	Modification Number / Title: 1 / F/A-18 Aircraft Structural Life Management Plan (SLMP) (OSIP 11-99) CBR+

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Models of Systems Affected: F/A-18 C/D	Modification Type: SAFETY / LIFE EXTENSION	Related RDT&E PEs:
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Financial Plan <small>(* Indicates the modification is being installed organically and no installation funds are required.)</small>	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
<i>Installation 11 of 11</i>												
1.2.1) Installation Kits N/R - Organic ^(*)	- / 6.824	- / 8.040	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 14.864
2.1.1) Fuel Cell, Nacelle, and CBR+ - Over and Above (RIM start FY08) - Organic ^(*)	- / 1.650	- / 5.836	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 17.486
Subtotal: Procurement	- / 8.474	- / 13.876	- / 19.356	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 41.706

Support												
3.2) ILS	- / 5.460	- / 3.557	- / 1.121	- / 0.744	- / -	- / 0.744	- / 0.131	- / 0.112	- / 0.090	- / 0.073	- / 0.116	- / 11.404
3.3) Other Support	- / 15.474	- / 11.789	- / 2.835	- / 0.882	- / -	- / 0.882	- / 0.833	- / 0.725	- / 0.622	- / 0.537	- / 0.871	- / 34.568
Subtotal: Support	- / 20.934	- / 15.346	- / 3.956	- / 1.626	- / -	- / 1.626	- / 0.964	- / 0.837	- / 0.712	- / 0.610	- / 0.987	- / 45.972

Installation												
Installation 1 of 11: GRP: ECP-0627 FWD Fuselage & LEX	- / -	- / -	- / -	- / 0.170	- / 0.000	- / 0.170	- / 0.173	- / -	- / -	- / -	- / 1.532	- / 1.875
Installation 2 of 11: GRP: ECP-0629 FWD Center Fuselage	- / 0.076	- / 0.109	- / 0.039	- / 0.057	- / 0.000	- / 0.057	- / 0.058	- / -	- / -	- / -	- / 0.191	- / 0.530
Installation 3 of 11: ECP-630 - AFC-652 Crease Longerons Straps (Y453 & Y488)	- / -	- / -	- / 5.263	- / 11.994	- / 0.000	- / 11.994	- / -	- / -	- / -	- / -	- / 0.000	- / 17.257
Installation 4 of 11: GRP: ECP-0630/630R2 AFT Center Fuselage	- / -	- / -	- / 4.289	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.045	- / 6.334
Installation 5 of 11: ECP-630R2 - AFC-687 Support, Floor-Fuel Bay, Y470.5 - Y488	- / -	- / -	- / 0.278	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.496	- / 2.774
Installation 6 of 11: ECP 631 AYC-1725 IW Multiple Locations L&R	- / -	- / -	- / 1.337	- / 2.461	- / 0.000	- / 2.461	- / -	- / -	- / -	- / -	- / 0.000	- / 3.798
Installation 7 of 11: GRP: ECP-0631/631R1/631C1 Inner Wing	- / -	- / -	- / 0.708	- / 2.166	- / 0.000	- / 2.166	- / -	- / -	- / -	- / -	- / 1.677	- / 4.551
Installation 8 of 11: ECP 631 C1-AYC-1744 Spar-Rear, Wing Panel, Inner	- / -	- / 0.526	- / -	- / 2.198	- / 0.000	- / 2.198	- / -	- / -	- / -	- / -	- / 0.000	- / 2.724
Installation 9 of 11: GRP: ECP632R1/633 Grouped Installs	- / 0.863	- / 0.171	- / 0.451	- / 0.460	- / 0.000	- / 0.460	- / 0.469	- / 0.479	- / 0.488	- / 0.498	- / 0.373	- / 4.252
Installation 10 of 11: ECP 633C1 - AFC-668 AFT Lower Longeron; Above Door 68 L&R	- / -	- / -	- / 5.938	- / 6.000	- / 0.000	- / 6.000	- / -	- / -	- / -	- / -	- / 0.000	- / 11.938
Installation 11 of 11: GRP: CBR ECP 904	- / 10.443	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 10.443
Subtotal: Installation	- / 11.382	- / 0.806	- / 18.303	- / 25.506	- / -	- / 25.506	- / 0.700	- / 0.479	- / 0.488	- / 0.498	- / 8.314	- / 66.476

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0502 / F-18 A-D Unique	Modification Number / Title: 1 / F/A-18 Aircraft Structural Life Management Plan (SLMP) (OSIP 11-99) CBR+

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Models of Systems Affected: F/A-18 C/D	Modification Type: SAFETY / LIFE EXTENSION	Related RDT&E PEs:
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Financial Plan <small>(*) Indicates the modification is being installed organically and no installation funds are required.</small>	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>

Total												
Total Cost (Procurement + Support + Installation)	40.790	30.028	41.615	27.132	0.000	27.132	1.664	1.316	1.200	1.108	9.301	154.154

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UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0502 / F-18 A-D Unique	Modification Number / Title: 1 / F/A-18 Aircraft Structural Life Management Plan (SLMP) (OSIP 11-99) CBR+

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Installation 1 of 11: GRP: ECP-0627 FWD Fuselage & LEX

Manufacturer Information

Manufacturer Name: Boeing - ECP-0627 FWD Fuselage & LEX Manufacturer Location: Not Specified..

Administrative Leadtime (in Months): 0 Production Leadtime (in Months): 0

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates							
Delivery Dates							

Installation Information

Method of Implementation: Navy Drive-In Modification:: Installation Name: ECP-0627 FWD Fuselage & LEX

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	1 / 0.170	0 / 0.000	1 / 0.170	1 / 0.173	- / -	- / -	- / -	8 / 1.532	10 / 1.875
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	1 / 0.170	0 / 0.000	1 / 0.170	1 / 0.173	- / -	- / -	- / -	8 / 1.532	10 / 1.875

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8	10
Out	-	-	-	-	-	-	-	-	-	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8	10

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0502 / F-18 A-D Unique	Modification Number / Title: 1 / F/A-18 Aircraft Structural Life Management Plan (SLMP) (OSIP 11-99) CBR+

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Installation 2 of 11: GRP: ECP-0629 FWD Center Fuselage

Manufacturer Information

Manufacturer Name: Boeing -ECP-0629 FWD Center Fuselage ⁽²⁾	Manufacturer Location: St Louis, MO
Administrative Leadtime (in Months): 0	Production Leadtime (in Months): 0

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates							
Delivery Dates							

Installation Information

Method of Implementation: Navy Drive-In Modification:: Installation Name: ECP-0629 FWD Center Fuselage

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	2 / 0.076	2 / 0.109	1 / 0.039	1 / 0.057	0 / 0.000	1 / 0.057	1 / 0.058	- / -	- / -	- / -	3 / 0.191	10 / 0.530
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	2 / 0.076	2 / 0.109	1 / 0.039	1 / 0.057	0 / 0.000	1 / 0.057	1 / 0.058	- / -	- / -	- / -	3 / 0.191	10 / 0.530

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	2	-	2	-	-	1	-	-	-	-	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	10
Out	2	-	-	-	2	-	-	1	-	-	-	-	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	3	10

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0502 / F-18 A-D Unique	Modification Number / Title: 1 / F/A-18 Aircraft Structural Life Management Plan (SLMP) (OSIP 11-99) CBR+

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Installation 3 of 11: ECP-630 - AFC-652 Crease Longerons Straps (Y453 & Y488)

Manufacturer Information

Manufacturer Name: TBD	Manufacturer Location: TBD
Administrative Leadtime (in Months): 0	Production Leadtime (in Months): 0

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates							
Delivery Dates							

Installation Information

Method of Implementation: [none specified]:: Installation Name: ECP-630 - AFC-652 Crease Longerons Straps (Y453 & Y488)

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	30 / 5.263	30 / 5.997	0 / 0.000	30 / 5.997	- / -	- / -	- / -	- / -	0 / 0.000	60 / 11.260
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	30 / 5.997	0 / 0.000	30 / 5.997	- / -	- / -	- / -	- / -	0 / 0.000	30 / 5.997
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	30 / 5.263	60 / 11.994	0 / 0.000	60 / 11.994	- / -	- / -	- / -	- / -	0 / 0.000	90 / 17.257

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot								
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4										
In	-	-	-	-	-	8	8	7	7	15	16	14	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	90
Out	-	-	-	-	-	8	8	7	7	15	16	14	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	90

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0502 / F-18 A-D Unique	Modification Number / Title: 1 / F/A-18 Aircraft Structural Life Management Plan (SLMP) (OSIP 11-99) CBR+

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Installation 4 of 11: GRP: ECP-0630/630R2 AFT Center Fuselage

Manufacturer Information

Manufacturer Name: Boeing				Manufacturer Location: St Louis, MO			
Administrative Leadtime (<i>in Months</i>): 0				Production Leadtime (<i>in Months</i>): 0			
Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates		Jan 2023					
Delivery Dates		Oct 2023					

Installation Information

Method of Implementation: Navy Drive-In Modification:: Installation Name: ECP-0630/630R2 AFT Center Fuselage

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	30 / 4.289	- / -	- / -	- / -	- / -	- / -	- / -	- / -	104 / 2.045	134 / 6.334
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	30 / 4.289	- / -	- / -	- / -	- / -	- / -	- / -	- / -	104 / 2.045	134 / 6.334

Installation Schedule

PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	8	8	8	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	104	134
Out	-	-	-	-	8	8	8	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	104	134

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0502 / F-18 A-D Unique	Modification Number / Title: 1 / F/A-18 Aircraft Structural Life Management Plan (SLMP) (OSIP 11-99) CBR+

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Installation 5 of 11: ECP-630R2 - AFC-687 Support, Floor-Fuel Bay, Y470.5 - Y488

Manufacturer Information

Manufacturer Name: TBD	Manufacturer Location: TBD
Administrative Leadtime (in Months): 0	Production Leadtime (in Months): 0

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates							
Delivery Dates							

Installation Information

Method of Implementation: [none specified]:: Installation Name: ECP-630R2 - AFC-687 Support, Floor-Fuel Bay, Y470.5 - Y488

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	4 / 0.278	- / -	- / -	- / -	- / -	- / -	- / -	- / -	32 / 2.496	36 / 2.774
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	4 / 0.278	- / -	- / -	- / -	- / -	- / -	- / -	- / -	32 / 2.496	36 / 2.774

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	1	1	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	32	36
Out	-	-	-	-	-	1	1	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	32	36

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0502 / F-18 A-D Unique	Modification Number / Title: 1 / F/A-18 Aircraft Structural Life Management Plan (SLMP) (OSIP 11-99) CBR+

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Installation 6 of 11: ECP 631 AYC-1725 IW Multiple Locations L&R

Manufacturer Information

Manufacturer Name: BOEING	Manufacturer Location: St. Louis, MO
Administrative Leadtime (in Months): 3	Production Leadtime (in Months): 7

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates		Dec 2022					
Delivery Dates		Jul 2023					

Installation Information

Method of Implementation: Navy Field Modification Team:: Installation Name: ECP 631 AYC-1725 IW Multiple Locations L&R

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	2 / 0.535	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	2 / 0.535
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	3 / 0.802	9 / 2.461	0 / 0.000	9 / 2.461	- / -	- / -	- / -	- / -	0 / 0.000	12 / 3.263
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	5 / 1.337	9 / 2.461	0 / 0.000	9 / 2.461	- / -	- / -	- / -	- / -	0 / 0.000	14 / 3.798

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot	
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4			
In	-	-	-	-	-	-	-	1	4	3	3	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14
Out	-	-	-	-	-	-	-	1	4	3	3	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0502 / F-18 A-D Unique	Modification Number / Title: 1 / F/A-18 Aircraft Structural Life Management Plan (SLMP) (OSIP 11-99) CBR+

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Installation 7 of 11: GRP: ECP-0631/631R1/631C1 Inner Wing

Manufacturer Information

Manufacturer Name: Boeing	Manufacturer Location: St Louis, MO
Administrative Leadtime (in Months): 3	Production Leadtime (in Months): 7

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates		Dec 2022					
Delivery Dates		Jul 2023					

Installation Information

Method of Implementation: Navy Drive-In Modification:: Installation Name: ECP-0631/631R1/631C1 Inner Wing

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	2 / 0.284	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 1.677	4 / 1.961
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	3 / 0.424	15 / 2.166	0 / 0.000	15 / 2.166	- / -	- / -	- / -	- / -	0 / 0.000	18 / 2.590
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	5 / 0.708	15 / 2.166	0 / 0.000	15 / 2.166	- / -	- / -	- / -	- / -	2 / 1.677	22 / 4.551

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	1	4	5	5	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	22
Out	-	-	-	-	-	-	-	1	4	5	5	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	22

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0502 / F-18 A-D Unique	Modification Number / Title: 1 / F/A-18 Aircraft Structural Life Management Plan (SLMP) (OSIP 11-99) CBR+

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Installation 8 of 11: ECP 631 C1-AYC-1744 Spar-Rear, Wing Panel, Inner

Manufacturer Information

Manufacturer Name: BOEING	Manufacturer Location: St Louis, MO
Administrative Leadtime (in Months): 3	Production Leadtime (in Months): 10

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates		Dec 2022					
Delivery Dates		Oct 2023					

Installation Information

Method of Implementation: [none specified]:: Installation Name: ECP 631 C1-AYC-1744 Spar-Rear, Wing Panel, Inner

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	2 / 0.526	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	2 / 0.526
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	15 / 2.198	0 / 0.000	15 / 2.198	- / -	- / -	- / -	- / -	0 / 0.000	15 / 2.198
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	2 / 0.526	- / -	15 / 2.198	0 / 0.000	15 / 2.198	- / -	- / -	- / -	- / -	0 / 0.000	17 / 2.724

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot				
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4						
In	-	-	-	1	1	-	-	-	-	3	4	4	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Out	-	-	-	1	1	-	-	-	-	3	4	4	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0502 / F-18 A-D Unique	Modification Number / Title: 1 / F/A-18 Aircraft Structural Life Management Plan (SLMP) (OSIP 11-99) CBR+

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Installation 9 of 11: GRP: ECP632R1/633 Grouped Installs

Manufacturer Information

Manufacturer Name: Not Specified. Manufacturer Location: Not Specified..

Administrative Leadtime (in Months): 0 Production Leadtime (in Months): 0

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates							
Delivery Dates							

Installation Information

Method of Implementation: Navy Drive-In Modification:: Installation Name: ECP632R1/633 Grouped Installs

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	88 / 0.863	23 / 0.171	30 / 0.451	30 / 0.460	0 / 0.000	30 / 0.460	30 / 0.469	30 / 0.479	30 / 0.488	30 / 0.498	11 / 0.373	302 / 4.252
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	88 / 0.863	23 / 0.171	30 / 0.451	30 / 0.460	0 / 0.000	30 / 0.460	30 / 0.469	30 / 0.479	30 / 0.488	30 / 0.498	11 / 0.373	302 / 4.252

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	88	5	6	6	6	8	7	8	7	8	7	8	7	8	7	8	7	8	7	8	7	8	7	8	7	8	7	8	7	11	302
Out	88	5	6	6	6	8	7	8	7	8	7	8	7	8	7	8	7	8	7	8	7	8	7	8	7	8	7	8	7	11	302

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0502 / F-18 A-D Unique	Modification Number / Title: 1 / F/A-18 Aircraft Structural Life Management Plan (SLMP) (OSIP 11-99) CBR+

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Installation 10 of 11: ECP 633C1 - AFC-668 AFT Lower Longeron; Above Door 68 L&R

Manufacturer Information

Manufacturer Name: Not Specified. Manufacturer Location: Not Specified..

Administrative Leadtime (in Months): 0 Production Leadtime (in Months): 0

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates							
Delivery Dates							

Installation Information

Method of Implementation: Navy Drive-in Modification:: Installation Name: ECP 633C1 - AFC-668 AFT Lower Longeron; Above Door 6

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	30 / 5.938	30 / 6.000	0 / 0.000	30 / 6.000	- / -	- / -	- / -	- / -	0 / 0.000	60 / 11.938
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	30 / 5.938	30 / 6.000	0 / 0.000	30 / 6.000	- / -	- / -	- / -	- / -	0 / 0.000	60 / 11.938

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot	
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4			
In	-	-	-	-	-	8	8	8	6	8	8	8	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	60
Out	-	-	-	-	-	8	8	8	6	8	8	8	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	60

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0502 / F-18 A-D Unique	Modification Number / Title: 1 / F/A-18 Aircraft Structural Life Management Plan (SLMP) (OSIP 11-99) CBR+

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Installation 11 of 11: GRP: CBR ECP 904

Manufacturer Information

Manufacturer Name: Not Specified.	Manufacturer Location: Not Specified..
Administrative Leadtime (in Months): 0	Production Leadtime (in Months): 0

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates							
Delivery Dates							

Installation Information

Method of Implementation: Navy Drive-In Modification:: Installation Name: CBR ECP 904

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	3 / 10.443	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	3 / 10.443
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	3 / 10.443	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	3 / 10.443

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Out	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Footnotes:
 (1) CE 1.1.15 Kit procurements occurred in BLI 0525 and were brought over to BLI 0502 for installation.
 (2) CE 1.1.2 FY 2024 accounts for increase in rates for installs at performing field activities.

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0502 / F-18 A-D Unique	Modification Number / Title: 2 / USMC F/A-18 Upgrade ECP-583 (OSIP 21-00)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	76.280	112.512	68.255	47.491	0.000	47.491	58.483	58.550	41.135	45.355	77.866	585.927
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	76.280	112.512	68.255	47.491	0.000	47.491	58.483	58.550	41.135	45.355	77.866	585.927
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	76.280	112.512	68.255	47.491	0.000	47.491	58.483	58.550	41.135	45.355	77.866	585.927

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

This Operational, Safety and Improvement Program (OSIP) upgrades United States Marine Corps (USMC) F/A-18C/D avionics capabilities, to include both hardware and software implemented improvements. This effort is critical to meet the documented Marine Corps requirement for tactical aircraft that can support the National Defense Strategy and National Military Strategy through 2030. Specifically, this OSIP will implement hardware and software upgrades necessary to maintain a credible and capable USMC F/A-18 fleet while also upgrading the Hornet platform so that it can fully exploit the lethality available from a 4th / 5th generation TACAIR mix required to meet Operational Plan (OPLAN) requirements until the F-35 transition completes in FY30. These upgrades include Radars, defensive electronic countermeasure systems, Navigation Warfare (NAVWAR) receivers, Embedded National Tactical Receiver (ENTR), data transfer units. The Active Electronically Scanned Array (AESA) Radar effort will upgrade USMC F/A-18 aircraft with an AESA Radar replacement from its existing mechanically scanned APG-65/73 Radar, which are now obsolete. The AN/APG-65/73 is a significant contributor to degraded readiness for both Non-Mission Capable Maintenance and Supply reasons. The AESA Radar hardware and software upgrade will significantly improve reliability while also improving USMC F/A-18 lethality, survivability, and availability in a near peer fight. The ALE-47 Countermeasures Dispensing Set (CMDS) system resolves obsolescence issues, provides enhanced aircraft survivability against Radio Frequency (RF), Infrared (IR), and Electro-optical (EO) threats from Surface to Air Missiles, Air-to-Air Missiles, and Anti-Aircraft Artillery. This OSIP provides funding for retrofit installation of AN/ALE-47 on F/A-18/

C/D aircraft and to procure new AN/ALE-47 Test Sets (ALM-290) to replace original version ALM-286s. NAVWAR will provide the aircraft's navigation system with an electronic protection capability against GPS jamming and interference. The Embedded National Tactical Receiver (ENTR) provides beyond line of sight tactical data reception. ENTR is a compact lightweight receiver that delivers near real-time intelligence, battlefield and situational awareness; and threat assessment data. A variant of the F/A-18E/F and EA-18G Data Transfer Unit (DTU), adapted for use in the USMC F/A-18 fleet, will provide data-at-rest protection for mission and maintenance data, as well as obsolescence mitigation for the Personal Computer Memory Card International Association (PCMCIA) memory card used in the Advanced Memory Unit (AMU).

This OSIP will also implement the Automated Ground Collision Avoidance System (Auto-GCAS) to mitigate Controlled Flight into Terrain (CFIT), and has consistently been a top platform safety priority in Naval Aviation Readiness Groups, Operational Advisory Groups, and Systems Safety Working Groups. Development of the Auto-GCAS capability is occurring under RDT&E PE 0204136N / Project 1662. Procurement of Auto-GCAS A-Kits and implementation of the ECP occurs under this OSIP.

The above modernization efforts such as AESA Radar and defensive electronic countermeasure systems will be integrated into the System Configuration Set (SCS) 31C which is the Operational Flight Program (OFP) for the F/A-18.

SCS 31C is a joint effort with the Royal Canadian Air Force (LOR-CN-P-P-010720-03) to build a common F/A-18 configuration and integrates Marine Corps modernization requirements necessary to support the TACAIR transition and the National Defense Strategy.

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Exhibit P-3a, Individual Modification: PB 2024 Navy										Date: March 2023				
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0502 / F-18 A-D Unique					Modification Number / Title: 2 / USMC F/A-18 Upgrade ECP-583 (OSIP 21-00)				
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:							
Models of Systems Affected: F/A-18 C/D				Modification Type: AVIONICS UPGRADE				Related RDT&E PEs: 0204136N						
Financial Plan <small>(* Indicates the modification is being installed organically and no installation funds are required.)</small>	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total		
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)		
Procurement														
1.1.1) AGCAS A KIT - Organic ^(*)	- / -	- / -	71 / 0.018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	71 / 0.018		
1.1.2) ALE-47 A Kit - NonOrganic <i>Installation 1 of 5</i>	- / -	- / -	16 / 0.816	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	16 / 0.816		
1.1.3) ALR-67(V)5 RADAR Warning Receiver A- Kit - Organic ^(*)	- / -	- / -	71 / 0.888	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	71 / 0.888		
1.1.4) ECP 639 Incorp of AESA (AFC) Fiber-Optic Interface - NonOrganic ⁽³⁾ <i>Installation 2 of 5</i>	126 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	126 / 0.000		
1.2.1) Installation Kits N/R - Organic ^(*)	- / 0.143	- / 4.155	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 4.298		
2.1.1) ECP 639 USMC AESA Radars (AFC PT 2) - NonOrganic ⁽⁴⁾ <i>Installation 3 of 5</i>	31 / 73.480	19 / 63.104	3 / 10.425	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	53 / 147.009		
2.1.2) NAVWAR - NonOrganic ⁽⁵⁾ <i>Installation 4 of 5</i>	- / -	5 / 0.644	10 / 1.314	20 / 2.682	- / -	20 / 2.682	20 / 2.735	20 / 2.789	20 / 2.845	20 / 2.902	- / -	115 / 15.911		
2.1.3) ALE-47 B-Kit - NonOrganic <i>Installation 5 of 5</i>	- / -	14 / 2.400	16 / 2.448	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	30 / 4.848		
2.1.4) ALR-67(V)5 RADAR Warning Receiver B- Kit - Organic ^(*)	- / -	- / -	71 / 40.612	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	71 / 40.612		
2.2.1) 31C SCS - Organic ^(*) (6)	- / -	- / 19.654	- / 16.203	- / 22.853	- / -	- / 22.853	- / 36.717	- / 37.359	- / 21.520	- / 24.911	- / -	- / 169.217		
2.2.2) SCS Critical Safety - Organic ^(*) (7)	- / -	- / 11.656	- / -	- / 18.244	- / -	- / 18.244	- / 14.294	- / 14.403	- / 12.890	- / 13.774	- / 69.764	- / 155.025		
Subtotal: Procurement	- / 73.623	- / 101.613	- / 62.724	- / 43.779	- / -	- / 43.779	- / 53.746	- / 54.551	- / 37.255	- / 41.587	- / 69.764	- / 538.642		
Support														
3.1) Training Equipment	- / -	- / 1.087	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.087		
3.2) ILS	- / -	- / 0.054	- / 0.572	- / 0.499	- / -	- / 0.499	- / 0.374	- / 0.381	- / 0.437	- / 0.446	- / 2.482	- / 5.245		
3.3) Other Support ⁽⁸⁾	- / 2.657	- / 7.349	- / 1.511	- / 1.202	- / -	- / 1.202	- / 1.268	- / 1.329	- / 1.365	- / 1.202	- / 3.458	- / 21.341		
Subtotal: Support	- / 2.657	- / 8.490	- / 2.083	- / 1.701	- / -	- / 1.701	- / 1.642	- / 1.710	- / 1.802	- / 1.648	- / 5.940	- / 27.673		
Installation														
Installation 1 of 5: ALE-47 A Kit	- / -	- / -	- / 0.616	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 0.616		
Installation 2 of 5: ECP 639 Incorp of AESA (AFC) Fiber-Optic Interface	- / -	- / 0.237	- / -	- / 0.603	- / 0.000	- / 0.603	- / 0.615	- / 0.251	- / -	- / -	- / 0.000	- / 1.706		
Installation 3 of 5: ECP 639 USMC AESA Radars (AFC PT 2)	- / -	- / 0.588	- / 0.504	- / 0.429	- / 0.000	- / 0.429	- / 0.482	- / -	- / -	- / -	- / 0.000	- / 2.003		
Installation 4 of 5: NAVWAR	- / -	- / -	- / 0.480	- / 0.979	- / 0.000	- / 0.979	- / 1.998	- / 2.038	- / 2.078	- / 2.120	- / 2.162	- / 11.855		

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0502 / F-18 A-D Unique	Modification Number / Title: 2 / USMC F/A-18 Upgrade ECP-583 (OSIP 21-00)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Models of Systems Affected: F/A-18 C/D	Modification Type: AVIONICS UPGRADE	Related RDT&E PEs: 0204136N
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Financial Plan <small>(* Indicates the modification is being installed organically and no installation funds are required.)</small>	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total	
	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	
Installation 5 of 5: ALE-47 B-Kit	- / -	- / 1.584	- / 1.848	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 3.432	
<i>Subtotal: Installation</i>	- / 0.000	- / 2.409	- / 3.448	- / 2.011	- / -	- / 2.011	- / 3.095	- / 2.289	- / 2.078	- / 2.120	- / 2.162	- / 19.612	
Total		76.280	112.512	68.255	47.491	0.000	47.491	58.483	58.550	41.135	45.355	77.866	585.927

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0502 / F-18 A-D Unique	Modification Number / Title: 2 / USMC F/A-18 Upgrade ECP-583 (OSIP 21-00)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Installation 1 of 5: ALE-47 A Kit

Manufacturer Information

Manufacturer Name: TBD	Manufacturer Location: Various
Administrative Leadtime (in Months): 3	Production Leadtime (in Months): 2

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates		Dec 2022					
Delivery Dates		Feb 2023					

Installation Information

Method of Implementation: [none specified]:: Installation Name: ALE-47 A Kit

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	16 / 0.616	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	16 / 0.616
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	16 / 0.616	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	16 / 0.616

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot	
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4			
In	-	-	-	-	-	-	8	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	16
Out	-	-	-	-	-	-	8	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	16

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0502 / F-18 A-D Unique	Modification Number / Title: 2 / USMC F/A-18 Upgrade ECP-583 (OSIP 21-00)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Installation 2 of 5: ECP 639 Incorp of AESA (AFC) Fiber-Optic Interface

Manufacturer Information

Manufacturer Name: TBD	Manufacturer Location: TBD
Administrative Leadtime (in Months): 0	Production Leadtime (in Months): 0

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates							
Delivery Dates							

Installation Information

Method of Implementation: [none specified]:: Installation Name: ECP 639 Incorp of AESA (AFC) Fiber-Optic Interface

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	18 / 0.237	- / -	45 / 0.603	0 / 0.000	45 / 0.603	45 / 0.615	18 / 0.251	- / -	- / -	0 / 0.000	126 / 1.706
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	18 / 0.237	- / -	45 / 0.603	0 / 0.000	45 / 0.603	45 / 0.615	18 / 0.251	- / -	- / -	0 / 0.000	126 / 1.706

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	4	4	5	5	-	-	-	-	11	11	11	12	11	11	11	12	4	4	5	5	-	-	-	-	-	-	-	-	-	-
Out	-	4	4	5	5	-	-	-	-	11	11	11	12	11	11	11	12	4	4	5	5	-	-	-	-	-	-	-	-	-	-

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0502 / F-18 A-D Unique	Modification Number / Title: 2 / USMC F/A-18 Upgrade ECP-583 (OSIP 21-00)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Installation 3 of 5: ECP 639 USMC AESA Radars (AFC PT 2)

Manufacturer Information

Manufacturer Name: Raytheon	Manufacturer Location: Not Specified..
Administrative Leadtime (in Months): 3	Production Leadtime (in Months): 18

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates	Dec 2021	Dec 2022					
Delivery Dates	Jun 2024	Jun 2025					

Installation Information

Method of Implementation: [none specified]:: Installation Name: ECP 639 USMC AESA Radars (AFC PT 2)

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	15 / 0.588	16 / 0.504	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	31 / 1.092
FY 2022	- / -	- / -	- / -	10 / 0.429	0 / 0.000	10 / 0.429	9 / 0.385	- / -	- / -	- / -	0 / 0.000	19 / 0.814
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	3 / 0.097	- / -	- / -	- / -	0 / 0.000	3 / 0.097
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	15 / 0.588	16 / 0.504	10 / 0.429	0 / 0.000	10 / 0.429	12 / 0.482	- / -	- / -	- / -	0 / 0.000	53 / 2.003

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot	
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4			
In	-	3	4	4	4	4	4	4	4	-	-	5	5	5	4	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	53
Out	-	3	4	4	4	4	4	4	4	-	-	5	5	5	4	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	53

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0502 / F-18 A-D Unique	Modification Number / Title: 2 / USMC F/A-18 Upgrade ECP-583 (OSIP 21-00)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Installation 4 of 5: NAVWAR

Manufacturer Information

Manufacturer Name: TBD	Manufacturer Location: TBD
Administrative Leadtime (in Months): 3	Production Leadtime (in Months): 10

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates	Dec 2021	Dec 2022	Dec 2023	Dec 2024	Dec 2025	Dec 2026	Dec 2027
Delivery Dates	Oct 2022	Oct 2023	Oct 2024	Oct 2025	Oct 2026	Oct 2027	Oct 2028

Installation Information

Method of Implementation: Contractor Field Mod team:: Installation Name: NAVWAR

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	5 / 0.480	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	5 / 0.480
FY 2023	- / -	- / -	- / -	10 / 0.979	0 / 0.000	10 / 0.979	- / -	- / -	- / -	- / -	0 / 0.000	10 / 0.979
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	20 / 1.998	- / -	- / -	- / -	0 / 0.000	20 / 1.998
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	20 / 2.038	- / -	- / -	0 / 0.000	20 / 2.038
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	20 / 2.078	- / -	0 / 0.000	20 / 2.078
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	20 / 2.120	0 / 0.000	20 / 2.120
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	20 / 2.162	20 / 2.162
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	5 / 0.480	10 / 0.979	0 / 0.000	10 / 0.979	20 / 1.998	20 / 2.038	20 / 2.078	20 / 2.120	20 / 2.162	115 / 11.855

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	1	1	1	2	2	2	3	3	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	20	115
Out	-	-	-	-	-	1	1	1	2	2	2	3	3	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	20	115

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0502 / F-18 A-D Unique	Modification Number / Title: 2 / USMC F/A-18 Upgrade ECP-583 (OSIP 21-00)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Installation 5 of 5: ALE-47 B-Kit

Manufacturer Information

Manufacturer Name: TBD	Manufacturer Location: Various
Administrative Leadtime (in Months): 3	Production Leadtime (in Months): 2

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates	Dec 2021	Dec 2022					
Delivery Dates	Feb 2022	Feb 2023					

Installation Information

Method of Implementation: [none specified]:: Installation Name: ALE-47 B-Kit

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	14 / 1.584	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	14 / 1.584
FY 2023	- / -	- / -	16 / 1.848	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	16 / 1.848
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	14 / 1.584	16 / 1.848	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	30 / 3.432

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot	
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4			
In	-	3	3	4	4	-	8	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	30
Out	-	3	3	4	4	-	-	8	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	30

Footnotes:
⁽³⁾ CE 1.1.4 Kits purchased in OSIP 21-00 BLI 0525.
⁽⁴⁾ CE 2.1.1 AESA Radar unit cost reflects awarded contract value

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0502 / F-18 A-D Unique	Modification Number / Title: 2 / USMC F/A-18 Upgrade ECP-583 (OSIP 21-00)
ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:	

- ⁽⁵⁾ CE 2.1.2 NAVWAR B Kits in OSIP 21-00 are for the C/D Aircraft.
- ⁽⁶⁾ CE 2.2.1 FY2024 increase for 31C SCS is due to critical safety items addressed in 31C and software modernization efforts to meet strike fighter viability during combat operations through weaponry, command and control, and electronic warfare
- ⁽⁷⁾ CE 2.2.2 funding for SCS Critical Safety supports the flight control and software integration of AGCAS in efforts to mitigate Controlled Flight into Terrain (CFIT), a top platform safety priority in Naval Aviation Readiness Groups, Operational Advisory Groups, and System Safety Working Groups.
- ⁽⁸⁾ CE 3.3 FY2024 increase for other support related to software modernization efforts

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0502 / F-18 A-D Unique	Modification Number / Title: 3 / F/A-18 Air Vehicle A/B/C/D Readiness (OSIP 10-21)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	47.421	19.555	31.644	41.928	0.000	41.928	42.921	42.831	44.067	41.847	130.025	442.239
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	47.421	19.555	31.644	41.928	0.000	41.928	42.921	42.831	44.067	41.847	130.025	442.239
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	47.421	19.555	31.644	41.928	0.000	41.928	42.921	42.831	44.067	41.847	130.025	442.239

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

This Operational Safety Improvement Program (OSIP) 10-21 is established for the correction of readiness degraders impacting F/A-18C/D aircraft cost per flight hour, Reliability Maintainability and Availability (RM&A), obsolescence, and reduction of life-cycle costs. These modifications will be accomplished by field retrofit and implemented to coincide with resources and aircraft availability. In order to meet the goal of increasing readiness, the airframe and integrated systems must be modified as critical RM&A issues are identified. Funds will be used to manage, prepare, process and incorporate Engineering Change Proposals. The reliability and readiness initiatives included in the proposed OSIP are projected to have a significant positive impact to the F/A-18C/D Aircraft platform. Modifications for the F/A-18C/D aircraft include flight controls, software, forward fuselage, aft fuselage, wing, critical structures, electrical, hydraulic, Environmental Control Systems (ECS), launch and recovery, fuel, mechanical, secondary power, and other modification efforts.

Engineering Change Proposals (ECPs) installs remaining from OSIP 11-84: ECP 608 Crease Longerons, ECP 609 Inner Wing Conversion/ Modification - Fuel Improvements, ECP 0796 (AYC-1317) Wing Fuel Dam, ECP 973 Fuel Cell Floor Crack, ECP 1034 NI Aileron Attach Lug Bushing (AYC-1481), ECP 1100 F/A-18 A-D Keel Beam Web Retrofit, ECP 1101 Inner Wing AFT Closure Rib, ECP 1102 Y508 Former Shear Tie Fastener Holes Retrofit, ECP 1118NI F/A-18 A-D Y580.5/Y590.5 Former Replacement Modline, ECP 1120NI F/A-18 A-D Upper O/B Longerons Y453/Y508 Fw Section Splice, ECP 1121 F/A-18 A-D MLG Critical Components Retrofit, ECP 1122 F/A-18 A-D NLG Critical Components Retrofit, ECP 1125 F/A-18 A-D Y470 Inner Wing Panel Lug, ECP 1137NI Fire Extinguisher Temp Compensating Pressure Switch, ECP-1142NI Y326.5 Lead Edge Ext (LEX) Spt Fitting & Substructure, ECP-1142C1 Y394.2 LEX Connecting Link Retrofit, ECP-1142NI C2 LEX Support Assy 74T030317 Replacement, ECP 1148NI Speed Brake Arresting Hook Actuator Fitting Retrofit, ECP-1155 NI Fuel Tank Four Cavity Foam Material Change, ECP 1155C1 NI Motive Flow Bulkhead Replacement, ECP 1159 - Y557.5 Bulkhead Tub Retrofit, ECP 1176 OWP Missile Support Rib Retrofit, ECP-1209 Outer Wing Panel 68% Spare, ECP-1211 Replacing Aging Fraying Flight Control and Brake Cables, ECP 6217 Cockpit Pressurization Warning System, ECP 6321R1 F/A-18 A-D Main Landing Gear Door Hinge Pins, ECP 1034 NI Trailing Edge Flap (AYC-1460), ECP 1235 Leading Edge Extension Sterilization (LEX), ECP 1242 Replacement of Canopy Actuator Connecting Link & Bolt, ECP 1098 NI F/A-18 A-D Y615 Former and Bootstrap Retrofit, ECP 1098 NI F/A-18 A-D Y615 Former and Bootstrap Retrofit, ECP 6530 Improved Cockpit Flight Control Mechanism (Seal).

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Exhibit P-3a, Individual Modification: PB 2024 Navy										Date: March 2023			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0502 / F-18 A-D Unique					Modification Number / Title: 3 / F/A-18 Air Vehicle A/B/C/D Readiness (OSIP 10-21)			
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: F/A-18C/D				Modification Type: Readiness				Related RDT&E PEs:					
Financial Plan <small>(*) Indicates the modification is being installed organically and no installation funds are required.</small>	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total	
	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	
Procurement													
1.1.1) ECP 1155 NI Fuel Tank Four Cavity Foam Material Chang - NonOrganic <i>Installation 1 of 6</i>	182 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	182 / 0.000	
1.1.2) ECP-608 Crease Longeron - NonOrganic <i>Installation 1 of 6</i>	36 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	36 / 0.000	
1.1.3) ECP-609 Inner Wing Conversion/Modification - Fuel Improvements - NonOrganic <i>Installation 1 of 6</i>	42 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	42 / 0.000	
1.1.4) ECP 609 Inner Wing Conversion/Modification - NonOrganic <i>Installation 1 of 6</i>	14 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	14 / 0.000	
1.1.5) ECP 973 Fuel Cell Floor Crack - NonOrganic <i>Installation 1 of 6</i>	87 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	87 / 0.000	
1.1.6) ECP 1034 NI Trailing Edge Flap (AYC-1460) - NonOrganic <i>Installation 1 of 6</i>	256 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	256 / 0.000	
1.1.7) ECP 1034 NI Aileron Attach Lug Bushing (AYC-1481) - NonOrganic <i>Installation 1 of 6</i>	235 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	235 / 0.000	
1.1.8) ECP 1100 F/A-18 A-D Keel Beam Web Retrofit - NonOrganic <i>Installation 1 of 6</i>	137 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	137 / 0.000	
1.1.9) ECP 1101 Inner Wing AFT Closure Rib - NonOrganic <i>Installation 1 of 6</i>	112 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	112 / 0.000	
1.1.10) ECP 1102 Y508 Former Shear Tie Fastener Holes Retrofit - NonOrganic <i>Installation 1 of 6</i>	50 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	50 / 0.000	
1.1.11) ECP 1118 NI F/A-18 A-D Y580/Y590.5 Former Replacement Modline - NonOrganic <i>Installation 1 of 6</i>	201 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	201 / 0.000	
1.1.12) ECP 1125 F/A-18 A-D Y470 Inner Wing Panel Lug - NonOrganic <i>Installation 1 of 6</i>	62 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	62 / 0.000	
1.1.13) ECP 1137 NI Fire Extinguisher Temp Compensating Pressure Switch - NonOrganic <i>Installation 1 of 6</i>	250 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	250 / 0.000	
1.1.14) ECP 1142 NI Y326.5 Lead Edge Ext (LEX) Spt Fitting & Substructure - NonOrganic <i>Installation 1 of 6</i>	235 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	235 / 0.000	
1.1.15) ECP 1148 NI Speed Brake Arresting Hook Actuator Fitting Retrofit - NonOrganic	170 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	170 / 0.000	

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Exhibit P-3a, Individual Modification: PB 2024 Navy										Date: March 2023			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0502 / F-18 A-D Unique						Modification Number / Title: 3 / F/A-18 Air Vehicle A/B/C/D Readiness (OSIP 10-21)			
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: F/A-18C/D				Modification Type: Readiness				Related RDT&E PEs:					
Financial Plan <small>(*) Indicates the modification is being installed organically and no installation funds are required.</small>	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
<i>Installation 1 of 6</i>													
1.1.16) ECP 1159 Y557.5 Bulkhead Tub Retrofit - NonOrganic <i>Installation 1 of 6</i>	310 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	310 / 0.000	
1.1.17) ECP 1209 NI Outer Wing Panel 68% Spar Mod (AYC-1816) - NonOrganic <i>Installation 1 of 6</i>	254 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	254 / 0.000	
1.1.18) ECP 6217 Cockpit Pressurization Warning System - NonOrganic <i>Installation 1 of 6</i>	243 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	243 / 0.000	
1.1.19) ECP 6321R1 F/A-18 A-D Main Landing Gear Door Hinge Pins - NonOrganic <i>Installation 1 of 6</i>	358 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	358 / 0.000	
1.1.25) ECP 1211 Replacing Aging Fraying Flight Control cables AFC698 - NonOrganic <i>Installation 1 of 6</i>	180 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	180 / 0.000	
1.1.26) ECP 1211 Replacing Aging Fraying Brake Control Cables AFC699 - NonOrganic <i>Installation 1 of 6</i>	420 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	420 / 0.000	
1.1.27) ECP 1155 C1 NI Motive Flow Bulkhead Replacement - NonOrganic <i>Installation 1 of 6</i>	525 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	525 / 0.000	
1.1.30) ECP 1098 NI F/A-18 A-D Y615 Former and Bootstrap Retrofit - NonOrganic <i>Installation 1 of 6</i>	269 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	269 / 0.000	
1.1.39) ECP 0796 (AYC-1317) Wing Fuel Dam - NonOrganic <i>Installation 1 of 6</i>	52 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	52 / 0.000	
1.1.20) ECP 1120 NI F/A-18 A-D Upper O/B Longeron Y453/ Y508 Fw Section Splice - NonOrganic <i>Installation 2 of 6</i>	105 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	10 / 0.328	10 / 0.335	16 / 0.550	141 / 1.213	
1.1.23) ECP 1142 C1 Y394.2 LEX Connecting Link Retrofit - NonOrganic <i>Installation 3 of 6</i>	142 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	16 / 0.009	16 / 0.009	16 / 0.009	123 / 0.074	313 / 0.101	
1.1.24) ECP 1176 OWP Missile Support Rib - NonOrganic <i>Installation 4 of 6</i>	203 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	203 / 0.000	
1.1.28) ECP 1235 Leading Edge Extension Sterilization (LEX) - NonOrganic <i>Installation 5 of 6</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	83 / 0.455	83 / 0.455	
1.1.29) ECP 1242 Replacement of Canopy Actuator Connecting Link & Bolt - Organic ^(*)	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	283 / 2.056	- / -	283 / 2.056	
1.1.31) ECP 6530 Improved Cockpit Flight Control Mechanism (Seal) - Organic ^(*)	- / -	- / -	300 / 0.980	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	300 / 0.980	

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy										Date: March 2023				
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0502 / F-18 A-D Unique					Modification Number / Title: 3 / F/A-18 Air Vehicle A/B/C/D Readiness (OSIP 10-21)				
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:							
Models of Systems Affected: F/A-18C/D				Modification Type: Readiness				Related RDT&E PEs:						
Financial Plan <small>(*) Indicates the modification is being installed organically and no installation funds are required.</small>	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total		
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)		
1.1.32) ECP XXX26 Structural Stress Corrosion Crack Issues - NonOrganic ⁽⁹⁾ <i>Installation 6 of 6</i>	- / -	- / -	24 / 0.425	55 / 0.992	- / -	55 / 0.992	55 / 1.012	55 / 1.032	55 / 1.053	- / -	- / -	244 / 4.514		
1.1.33) ECP XXX27 F/A-18 A-D Subsystems Retrofit Upgrades Issue - NonOrganic <i>Installation 6 of 6</i>	- / -	- / -	24 / 0.324	55 / 0.761	- / -	55 / 0.761	55 / 0.776	55 / 0.792	55 / 0.808	- / -	- / -	244 / 3.461		
1.1.34) ECP XXX28 F/A-18 A-D ECS Subsystems Upgrade Issues - NonOrganic <i>Installation 6 of 6</i>	- / -	- / -	24 / 0.199	55 / 0.467	- / -	55 / 0.467	55 / 0.476	55 / 0.486	55 / 0.496	- / -	- / -	244 / 2.124		
1.1.36) ECP XXX30 F/A-18 A-D Flight Control Surfaces Issues - NonOrganic <i>Installation 6 of 6</i>	- / -	- / -	24 / 0.074	55 / 0.173	- / -	55 / 0.173	55 / 0.176	55 / 0.180	55 / 0.184	- / -	- / -	244 / 0.787		
1.1.37) ECP-XXX31 - KAPTON WIRING MODIFICATION IMPROVEMENT - NonOrganic <i>Installation 6 of 6</i>	- / -	- / -	24 / 0.235	55 / 0.549	- / -	55 / 0.549	55 / 0.560	55 / 0.572	55 / 0.583	- / -	- / -	244 / 2.499		
1.1.35) ECP XXX29 F/A-18 A-D Fuel Related Upgrade Issues - Organic ^(*)	- / -	- / -	24 / 0.075	55 / 0.175	- / -	55 / 0.175	55 / 0.179	55 / 0.182	55 / 0.186	- / -	- / -	244 / 0.797		
1.1.38) ECP XXX33 F/A-18 A-D NACES Retrofit Upgrade - Organic ^(*)	- / -	- / -	24 / 0.099	55 / 0.231	- / -	55 / 0.231	55 / 0.236	55 / 0.241	55 / 0.246	- / -	- / -	244 / 1.053		
1.1.40) CKA Material Line - Organic ^(*)	- / -	- / -	- / 1.092	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.092		
1.2.1) Installation Kits N/R - Organic ^(*)	- / 10.073	- / 1.568	- / -	- / 1.360	- / -	- / 1.360	- / 1.179	- / 1.022	- / 0.886	- / 0.768	- / 1.244	- / 18.100		
Subtotal: Procurement	- / 10.073	- / 1.568	- / 3.503	- / 4.708	- / -	- / 4.708	- / 4.594	- / 4.516	- / 4.779	- / 3.623	- / 1.868	- / 39.232		
Support														
3.1) Data	- / 0.102	- / 0.015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.117		
3.2) Support Equipment	- / 0.381	- / 0.221	- / 1.936	- / 1.991	- / -	- / 1.991	- / 2.068	- / 2.128	- / 2.170	- / 2.213	- / 4.561	- / 17.669		
3.3) ILS ⁽¹⁰⁾	- / 10.596	- / 5.701	- / 2.311	- / 5.040	- / -	- / 5.040	- / 4.276	- / 3.671	- / 3.032	- / 2.426	- / 4.004	- / 41.057		
3.4) Other Support ⁽¹¹⁾	- / 13.716	- / 3.859	- / 3.938	- / 5.163	- / -	- / 5.163	- / 3.887	- / 3.965	- / 3.953	- / 4.032	- / 5.360	- / 47.873		
Subtotal: Support	- / 24.795	- / 9.796	- / 8.185	- / 12.194	- / -	- / 12.194	- / 10.231	- / 9.764	- / 9.155	- / 8.671	- / 13.925	- / 106.716		
Installation														
Installation 1 of 6: GRP: Prior Year Procurements	- / 11.395	- / 6.254	- / 13.745	- / 15.055	- / 0.000	- / 15.055	- / 13.172	- / 13.337	- / 13.575	- / 13.809	- / 83.805	- / 184.147		
Installation 2 of 6: ECP 1120 NI F/A-18 A-D Upper O/B Longerons Y453/Y508 Fw Section Splice	- / 1.150	- / 1.405	- / 2.800	- / 2.833	- / 0.000	- / 2.833	- / 2.889	- / 2.947	- / 3.010	- / 3.067	- / 14.294	- / 34.395		
Installation 3 of 6: ECP 1142 C1 Y394.2 LEX Connecting Link Retrofit	- / 0.008	- / 0.011	- / 0.036	- / 0.013	- / 0.000	- / 0.013	- / 0.014	- / 0.012	- / 0.019	- / 0.023	- / 0.146	- / 0.282		
Installation 4 of 6: ECP 1176 OWP Missile Support Rib	- / -	- / 0.521	- / 3.375	- / 3.436	- / 0.000	- / 3.436	- / 3.498	- / 3.560	- / 3.623	- / 3.696	- / 15.305	- / 37.014		

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0502 / F-18 A-D Unique	Modification Number / Title: 3 / F/A-18 Air Vehicle A/B/C/D Readiness (OSIP 10-21)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Models of Systems Affected: F/A-18C/D	Modification Type: Readiness	Related RDT&E PEs:
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Financial Plan <small>(*) Indicates the modification is being installed organically and no installation funds are required.</small>	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>
Installation 5 of 6: ECP 1235 Leading Edge Extension Sterilization (LEX)	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.682	- / 0.682
Installation 6 of 6: GRP: XXX Installations	- / -	- / -	- / -	- / 3.689	- / 0.000	- / 3.689	- / 8.523	- / 8.695	- / 9.906	- / 8.958	- / 0.000	- / 39.771
<i>Subtotal: Installation</i>	- / 12.553	- / 8.191	- / 19.956	- / 25.026	- / -	- / 25.026	- / 28.096	- / 28.551	- / 30.133	- / 29.553	- / 114.232	- / 296.291
Total												
Total Cost (Procurement + Support + Installation)	47.421	19.555	31.644	41.928	0.000	41.928	42.921	42.831	44.067	41.847	130.025	442.239

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0502 / F-18 A-D Unique	Modification Number / Title: 3 / F/A-18 Air Vehicle A/B/C/D Readiness (OSIP 10-21)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Installation 1 of 6: GRP: Prior Year Procurements

Manufacturer Information

Manufacturer Name: TBD ⁽¹²⁾	Manufacturer Location: TBD
Administrative Leadtime (in Months): 0	Production Leadtime (in Months): 0

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates							
Delivery Dates							

Installation Information

Method of Implementation: Navy Drive-In Modification:: Installation Name: Prior Year Procurements

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	214 / 11.395	256 / 6.254	371 / 13.745	288 / 15.055	0 / 0.000	288 / 15.055	259 / 13.172	255 / 13.337	243 / 13.575	228 / 13.809	2,566 / 83.805	4,680 / 184.147
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	214 / 11.395	256 / 6.254	371 / 13.745	288 / 15.055	0 / 0.000	288 / 15.055	259 / 13.172	255 / 13.337	243 / 13.575	228 / 13.809	2,566 / 83.805	4,680 / 184.147

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	214	59	63	65	69	93	93	94	91	72	72	72	72	67	66	63	63	65	64	63	63	63	62	60	58	58	57	56	57	2,566	4,680
Out	214	59	63	65	69	93	93	94	91	72	72	72	72	67	66	63	63	65	64	63	63	63	62	60	58	58	57	56	57	2,566	4,680

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0502 / F-18 A-D Unique	Modification Number / Title: 3 / F/A-18 Air Vehicle A/B/C/D Readiness (OSIP 10-21)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Installation 2 of 6: ECP 1120 NI F/A-18 A-D Upper O/B Longeron Y453/Y508 Fw Section Splice

Manufacturer Information

Manufacturer Name: TBD	Manufacturer Location: TBD
Administrative Leadtime (in Months): 3	Production Leadtime (in Months): 10

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates						Dec 2026	Dec 2027
Delivery Dates						Oct 2027	Oct 2028

Installation Information

Method of Implementation: NAVY DRIVE IN MOD:: Installation Name: ECP 1120 NI F/A-18 A-D Upper O/B Longeron Y453/Y508 Fw Sectio

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	6 / 1.150	9 / 1.405	12 / 2.800	12 / 2.833	0 / 0.000	12 / 2.833	12 / 2.889	12 / 2.947	12 / 3.010	12 / 3.067	18 / 4.718	105 / 24.819
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	10 / 2.660	10 / 2.660
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	10 / 2.660	10 / 2.660
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	16 / 4.256	16 / 4.256
Total	6 / 1.150	9 / 1.405	12 / 2.800	12 / 2.833	0 / 0.000	12 / 2.833	12 / 2.889	12 / 2.947	12 / 3.010	12 / 3.067	54 / 14.294	141 / 34.395

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	6	2	2	2	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	54	141
Out	6	2	2	2	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	54	141

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0502 / F-18 A-D Unique	Modification Number / Title: 3 / F/A-18 Air Vehicle A/B/C/D Readiness (OSIP 10-21)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Installation 3 of 6: ECP 1142 C1 Y394.2 LEX Connecting Link Retrofit

Manufacturer Information

Manufacturer Name: TBD	Manufacturer Location: TBD
Administrative Leadtime (in Months): 3	Production Leadtime (in Months): 10

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates					Dec 2025	Dec 2026	Dec 2027
Delivery Dates					Oct 2026	Oct 2027	Oct 2028

Installation Information

Method of Implementation: NAVY DRIVE IN MOD:: Installation Name: ECP 1142 C1 Y394.2 LEX Connecting Link Retrofit

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	7 / 0.008	14 / 0.011	16 / 0.036	16 / 0.013	0 / 0.000	16 / 0.013	16 / 0.014	16 / 0.012	16 / 0.014	16 / 0.013	25 / 0.021	142 / 0.142
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	6 / 0.005	6 / 0.005	4 / 0.003	16 / 0.013
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	6 / 0.005	10 / 0.008	16 / 0.013
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	16 / 0.013	16 / 0.013
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	123 / 0.101	123 / 0.101
Total	7 / 0.008	14 / 0.011	16 / 0.036	16 / 0.013	0 / 0.000	16 / 0.013	16 / 0.014	16 / 0.012	22 / 0.019	28 / 0.023	178 / 0.146	313 / 0.282

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	7	3	4	3	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	5	6	5	6	6	8	6	8	178	313
Out	7	3	4	3	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	5	6	5	6	6	8	6	8	178	313

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0502 / F-18 A-D Unique	Modification Number / Title: 3 / F/A-18 Air Vehicle A/B/C/D Readiness (OSIP 10-21)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Installation 4 of 6: ECP 1176 OWP Missile Support Rib

Manufacturer Information

Manufacturer Name: TBD	Manufacturer Location: TBD
Administrative Leadtime (in Months): 3	Production Leadtime (in Months): 9

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates							
Delivery Dates							

Installation Information

Method of Implementation: NAVY DRIVE IN MOD:: Installation Name: ECP 1176 OWP Missile Support Rib

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	3 / 0.521	20 / 3.375	20 / 3.436	0 / 0.000	20 / 3.436	20 / 3.498	20 / 3.560	20 / 3.623	20 / 3.696	80 / 15.305	203 / 37.014
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	3 / 0.521	20 / 3.375	20 / 3.436	0 / 0.000	20 / 3.436	20 / 3.498	20 / 3.560	20 / 3.623	20 / 3.696	80 / 15.305	203 / 37.014

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	1	1	1	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	80	203
Out	-	-	1	1	1	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	80	203

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0502 / F-18 A-D Unique	Modification Number / Title: 3 / F/A-18 Air Vehicle A/B/C/D Readiness (OSIP 10-21)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Installation 5 of 6: ECP 1235 Leading Edge Extension Sterilization (LEX)

Manufacturer Information

Manufacturer Name: TBD	Manufacturer Location: TBD
Administrative Leadtime (in Months): 3	Production Leadtime (in Months): 10

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates							Dec 2027
Delivery Dates							Oct 2028

Installation Information

Method of Implementation: [none specified]:: Installation Name: ECP 1235 Leading Edge Extension Sterilization (LEX)

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	83 / 0.682	83 / 0.682
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	83 / 0.682	83 / 0.682

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	83	83
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	83	83

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0502 / F-18 A-D Unique	Modification Number / Title: 3 / F/A-18 Air Vehicle A/B/C/D Readiness (OSIP 10-21)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Installation 6 of 6: GRP: XXX Installations

Manufacturer Information

Manufacturer Name: TBD	Manufacturer Location: TBD
Administrative Leadtime (in Months): 3	Production Leadtime (in Months): 10

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates		Dec 2022	Dec 2023	Dec 2024	Dec 2025	Dec 2026	
Delivery Dates		Oct 2023	Oct 2024	Oct 2025	Oct 2026	Oct 2027	

Installation Information

Method of Implementation: Navy Drive-In Modification:: Installation Name: XXX Installations

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	120 / 3.689	0 / 0.000	120 / 3.689	- / -	- / -	- / -	- / -	0 / 0.000	120 / 3.689
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	275 / 8.443	- / -	- / -	- / -	0 / 0.000	275 / 8.443
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.080	275 / 8.614	- / -	- / -	0 / 0.000	275 / 8.694
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.081	275 / 9.364	- / -	0 / 0.000	275 / 9.445
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.542	275 / 8.958	0 / 0.000	275 / 9.500
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	120 / 3.689	0 / 0.000	120 / 3.689	275 / 8.523	275 / 8.695	275 / 9.906	275 / 8.958	0 / 0.000	1,220 / 39.771

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	30	30	30	30	65	70	70	70	65	70	70	70	65	70	70	70	65	70	70	70	-	1,220
Out	-	-	-	-	-	-	-	-	-	30	30	30	30	65	70	70	70	65	70	70	70	65	70	70	70	65	70	70	70	-	1,220

Footnotes:
⁽⁹⁾ CE 1.1.32 FY 2024 reflects acceleration of kit buys and installs.
⁽¹⁰⁾ CE 3.3 FY2024 increase to support ramp up of structural and subsystems ECPs

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0502 / F-18 A-D Unique	Modification Number / Title: 3 / F/A-18 Air Vehicle A/B/C/D Readiness (OSIP 10-21)
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:

- (11) CE 3.4 FY2024 increase to support ramp up of structural and subsystems ECPs
- (12) GRP: Prior Year Procurements - Kit procurements occurred in BLI 0525 and were brought over to BLI 0502 for installation through FYDP .

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Exhibit P-40, Budget Line Item Justification: PB 2024 Navy **Date:** March 2023

Appropriation / Budget Activity / Budget Sub Activity: 1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft	P-1 Line Item Number / Title: 0505 / F-18E/F and EA-18G Modernization and Sustainment
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	386.405	445.721	552.849	605.416	0.000	605.416	531.235	573.367	592.884	771.385	5,544.231	10,003.493
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	386.405	445.721	552.849	605.416	0.000	605.416	531.235	573.367	592.884	771.385	5,544.231	10,003.493
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	386.405	445.721	552.849	605.416	0.000	605.416	531.235	573.367	592.884	771.385	5,544.231	10,003.493

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

LI 0505 was established in FY2021 in order to provide greater transparency of F/A-18E/F and EA-18G modernization and sustainment efforts. OSIPs 11-10, 11-13, 14-03, & 20-14 can be found in LI-0525 for FY20 and prior. FY21 and out resides in LI-0505.

This line item funds modifications to the F/A-18 E/F and EA-18G aircraft.

The F/A-18 Naval Strike Fighter is a twin-engine, mid-wing, multi-mission tactical aircraft. The F/A-18 is employed in both Navy and Marine Corps squadrons. Commencing with the FY 1988 procurement, both the single seat and two-seat F/A-18s include a night attack capability. The F/A-18 can be missionized through selected use of external equipment to accomplish specific fighter or attack missions. This commonality provides the Operational Commander more flexibility in employing tactical aircraft in a dynamic scenario. The primary design mission for the F/A-18 is a strike fighter which includes the traditional fighter applications, such as fighter escort and fleet air defense, combined with the attack applications, such as interdiction and close air support. Since fighter capabilities are available in either mission, a robust self-defense capability is retained.

The EA-18G Growler is the primary Airborne Electronic Attack (AEA) platform supporting the Joint Force and the sole tactical AEA aircraft in the DoD inventory. The Growler is an asymmetric force multiplier that increases the survivability and lethality of the Joint Force, enabling all-domain superiority for the Electromagnetic Spectrum (EMS). The centrality of EMS dominance to the CNO's Maritime Strategy further necessitates EA-18G modernization as a strategic pursuit to secure EMS superiority for the Navy's Carrier Strike and Joint Expeditionary operations. The performance of the aircraft is compatible with the primary strike/fighter aircraft inventory, allowing it to be fully integrated into strike packages. It also has the capacity to provide broad area coverage for extended periods of time to support numerous strikes or other air operations in a federated context. The EA-18G is a scalable, flexible solution facilitating "Task Organized" force structures. Task organized force structures employ adequate forces to accomplish a specific task while maintaining operational and personnel tempo at acceptable levels. The EA-18G is designed to perform a range of Electronic Warfare / Electronic Attack functions either simultaneously or independently. The EA-18G's man-in-the-loop operation and advanced information display system allow real time assessment of the tactical situation and the capability to appropriately respond in accordance with the rules of engagement. The EA-18G electronic attack capability detects, identifies, locates, and suppresses hostile emitters and networks; provides enhanced connectivity to National, Theater and strike assets; and provides organic passive targeting for employment of onboard or off-board weapons to fulfill operational requirements.

NOTE: Kit procurements were budgeted and executed properly, in alignment with planned organic depot inductions. Aircraft inductions have exceeded depot capacity due to many aircraft reaching service life limits at the same time, increased turnaround time due to material degradation and corrosion repairs over and above planned modification efforts, and delays caused by sequestration which increased the number of Out of Reporting (OOR) aircraft. Due to these depot constraints, prior year kit procurements became misaligned with aircraft installations. Depot level kit installations have been impacted by depot

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Exhibit P-40, Budget Line Item Justification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft		P-1 Line Item Number / Title: 0505 / F-18E/F and EA-18G Modernization and Sustainment
ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
Line Item MDAP/MAIS Code: N/A		
throughput constraints and backlog. The install schedules reflected in this budget take into account the current constrained depot throughput and backlog. Funds in this budget request are required for on-going modifications to address OOR aircraft.		
Current aircraft inventory and Flight hours flown as of 09 February 2023: F/A-18E - 317 (307 Active, 10 Reserve): service life 6,000 hours (current); 10,000 hours (extended); average service life remaining 2,426 (current-all Non-SLM inducted); 6,388 (extended-Block II aircraft only) F/A-18F - 248 (246 Active, 2 Reserve): service life 6,000 hours (current); 10,000 hours (extended); average service life remaining 1,713 (current-all Non-SLM inducted); 5,513 (extended-Block II aircraft only) EA-18G - 160 (155 Active, 5 Reserve): service life 7,500 hours (current); No extension at this time; average service life remaining 4,787 (current)		

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Exhibit P-40, Budget Line Item Justification: PB 2024 Navy **Date:** March 2023

Appropriation / Budget Activity / Budget Sub Activity:
1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft

P-1 Line Item Number / Title:
0505 / F-18E/F and EA-18G Modernization and Sustainment

ID Code (A=Service Ready, B=Not Service Ready): A **Program Elements for Code B Items:** N/A **Other Related Program Elements:** N/A

Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	1 / EA-18G Unique OSIP (011-10) (SAFETY /RELIABILITY/IMPROVEMENT)				- / 63.581	- / 66.376	- / 118.963	- / 127.864	- / 0.000	- / 127.864
P-3a	2 / Power and Propulsion (11-13) (Safety, Readiness, Reliability)				- / 27.176	- / 30.599	- / 10.469	- / 11.766	- / 0.000	- / 11.766
P-3a	3 / E/F & EA-18G Correction of Operational Discrepancies (OSIP 14-03) (SAFETY /RELIABILITY/IMPROVEMENT)				- / 120.841	- / 138.750	- / 149.965	- / 161.997	- / 0.000	- / 161.997
P-3a	4 / F/A-18E/F and EA-18G SLEP (OSIP 020-14) (SAFETY / LIFE EXTENSION)				- / 174.807	- / 209.996	- / 273.452	- / 303.789	- / 0.000	- / 303.789
P-40	Total Gross/Weapon System Cost				- / 386.405	- / 445.721	- / 552.849	- / 605.416	- / 0.000	- / 605.416

Exhibits Schedule					FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	1 / EA-18G Unique OSIP (011-10) (SAFETY /RELIABILITY/IMPROVEMENT)				- / 133.052	- / 175.877	- / 132.589	- / 230.844	- / 145.950	- / 1,195.096
P-3a	2 / Power and Propulsion (11-13) (Safety, Readiness, Reliability)				- / 11.770	- / 9.126	- / 27.533	- / 53.075	- / 209.659	- / 391.173
P-3a	3 / E/F & EA-18G Correction of Operational Discrepancies (OSIP 14-03) (SAFETY /RELIABILITY/IMPROVEMENT)				- / 154.293	- / 97.500	- / 78.011	- / 72.719	- / 228.098	- / 1,202.174
P-3a	4 / F/A-18E/F and EA-18G SLEP (OSIP 020-14) (SAFETY / LIFE EXTENSION)				- / 232.120	- / 290.864	- / 354.751	- / 414.747	- / 4,960.524	- / 7,215.050
P-40	Total Gross/Weapon System Cost				- / 531.235	- / 573.367	- / 592.884	- / 771.385	- / 5,544.231	- / 10,003.493

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

Justification:
The overall goal of the modifications budgeted in FY 2024 is to implement commonality/capability and structural safety and reliability improvements. OSIPs 11-10, 11-13, 14-03, & 20-14 can be found in LI-0525 for FY20 and prior. FY21 and out resides in LI-0505.

OSIP 11-10 EA-18G Unique funding enables four Growler Capability Modification (GCM) lines to meet the Navy's Master Aviation Plan capacity in support of COCOM capability requirements. This OSIP supports the required safety-of-flight modifications, mitigation of obsolescence issues, and incorporation of system improvements.

OSIP 11-13 Power and Propulsion incorporates safety and life-limiting propulsion and power corrective actions to resolve safety and readiness concerns. Corrections to design deficiencies found during post production test and evaluation, and discovered during fleet operations, that have resulted in safety and reliability degradation, must be corrected. FY24 funds Generator Converter Unit (GCU), Feeder Wire and Transformer Rectifier Unit (TRU) modifications that are required to support the aircraft power growth for service life extension.

OSIP 14-03 E/F & EA-18G Correction of Operational Discrepancies provides resources to correct aircraft discrepancies and other applicable procurement efforts by modifying, improving, and restoring aircraft structural safety and reliability to designed/required life limits. These efforts are specific to F/A-18E/F and EA-18G aircraft and projected increased inductions at both organic and commercial depot is necessary to meet the department's Strike Fighter Inventory and ensure that the aircraft remains safe. Without these modifications, the Strike Fighter Shortfall inventory will increase.

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Exhibit P-40, Budget Line Item Justification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft		P-1 Line Item Number / Title: 0505 / F-18E/F and EA-18G Modernization and Sustainment
ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
Line Item MDAP/MAIS Code: N/A		

OSIP 20-14 F/A-18E/F and EA-18G SLEP incorporates structural and sub-systems enhancements and changes required to extend the F/A-18E/F and EA-18G service life, and maintain sufficient aircraft inventory, to meet fleet operational requirements through FY2046. FY24 planned SLM inductions are necessary to meet the department's Strike Fighter Inventory Management plan. Without these inductions, the Strike Fighter Shortfall inventory will increase.

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0505 / F-18E/F and EA-18G Modernization and Sustainment	Modification Number / Title: 1 / EA-18G Unique OSIP (011-10)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	63.581	66.376	118.963	127.864	0.000	127.864	133.052	175.877	132.589	230.844	145.950	1,195.096
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	63.581	66.376	118.963	127.864	0.000	127.864	133.052	175.877	132.589	230.844	145.950	1,195.096
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	63.581	66.376	118.963	127.864	0.000	127.864	133.052	175.877	132.589	230.844	145.950	1,195.096

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

FY24 funding enables Growler Capability Modification (GCM) to meet the Navy's Master Aviation Plan in support of COCOM capability and capacity requirements.

Current Modifications: EA-18G Growler GCM includes a series of Engineering Change Proposals (ECPs) that support performance interdependencies for H16 and Airborne Electronic Attack System Enhancement (ASE)/Next Generation Jammer-Mid Band (NGJ-MB) software & hardware integration. GCM A/B Kit installations are being executed simultaneously to reduce cost and provide schedule efficiencies as aircraft are removed from service and run through major disassembly and reassembly only once, rather than multiple times. GCM includes the following ECPs: ECP 6482 ASE that retrofits ALQ-218(V)2 hardware and software for improved emitter location, identification, probability of intercept, and faster geo-location response times against complex waveforms. ECP6482 also funds installation of the Low Band Dedicated Receiver (LBDR) Weapon Replaceable Assembly (WRA) to increase ALQ-218 signal processing capacity and capability in dense electromagnetic environments; ECP 6444 is part of a weight reduction initiative; ECP 6472 (EA-18G NGJ-MB) A-kits are wiring and cables upgrades within the aircraft; ECP 6464 addresses Enhanced Interference Blanking Unit (EIBU) obsolescence and incorporates the Radio Frequency Blanking Unit (RFBU) as a form, fit, function replacement to the EIBU to mitigate Radio Frequency (RF) interference within the aircraft.

Growler Block II (GB2) procurement and installation will implement innovative capability improvements required for Naval Aviation to regain and sustain an advantage in the Electromagnetic Spectrum (EMS) until the EA-18G replacement. GB2 is the first major upgrade to the Growler weapons system since IOC in 2009. GB2 will utilize a phased approach to develop enhanced AEA capabilities. Phase 1 will include an upgraded Next Generation Electronic Attack Unit (NGEAU) and Reactive Electronic Attack Measures (REAM). The NGEAU will support an Open Mission Systems (OMS) processor architecture, include Multi Level Security (MLS), and include a Multi-Tier Resource Management (MTRM) framework. Additionally, the NGEAU addresses Diminishing Manufacturing Sources and Material Shortages (DMSMS) concerns with the current EAU. REAM uses cognitive EW machine learning algorithms to provide the warfighter with capabilities to counter advanced Integrated Air Defense System (IADS) by detecting and identifying unknown complex emitters. Phase 2, Beowulf, will include an advanced Multi-Function Array (MFA) in the Inboard Leading Edge Flap (ILEF), augmenting the ALQ-218 functionality and capability. The GB2 MFA serves as technology development and risk reduction for the incorporation of MFAs on multiple future platforms. GB2 funding includes a common configuration and Airborne Electronic Attack (AEA) I-level standup, including procurement and fielding of Operational Test Program Sets (OTPS) as support equipment, to support the GB2 upgrade.

The Joint Tactical Terminal-Receiver (JTT-R) was developed to replace the Multi-Mission Advanced Tactical Terminal (MATT) to address MATT obsolescence and capability deficiencies. OSIP funding was used to retrofit the aircraft with JTT-R at the completion of the development program. Future beyond line of sight (BLOS) modifications will exist on EA-18G and will require funding for software and hardware updates.

EA-18G Growler modifications are focused on modernization of processing, apertures, and aircrew decision aids, to include Beyond Line of Sight (BLOS) communication and networks to ensure tactical relevance vs. peer threats in the EMS.

BLI 0505 was established in FY2021 in order to provide greater transparency of EA-18G modernization and sustainment efforts. OSIP 11-10 can be found in BLI 0525 for FY20 and prior. FY21 and out resides in BLI 0505.

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0505 / F-18E/F and EA-18G Modernization and Sustainment	Modification Number / Title: 1 / EA-18G Unique OSIP (011-10)
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:
EA-18G aircraft achieved initial operation capability in FY2009
REAM development is funded out of RDT&E, with a planned IOC of FY2025.

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Exhibit P-3a, Individual Modification: PB 2024 Navy										Date: March 2023			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0505 / F-18E/F and EA-18G Modernization and Sustainment						Modification Number / Title: 1 / EA-18G Unique OSIP (011-10)			
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: EA-18G				Modification Type: SAFETY /RELIABILITY/ IMPROVEMENT				Related RDT&E PEs: 0604269N					
Financial Plan <small>(*) Indicates the modification is being installed organically and no installation funds are required.</small>	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total	
	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	
Procurement													
1.1.1) ECP 6444 - EA-18G Weight Reduction Initiative - NonOrganic ⁽¹⁾ <i>Installation 1 of 8</i>	44 / 0.308	32 / 0.314	32 / 0.355	19 / 0.362	- / -	19 / 0.362	- / -	- / -	- / -	- / -	- / -	127 / 1.339	
1.1.2) ECP 6482 - ASE (ALQ-218 Modifications) - NonOrganic <i>Installation 2 of 8</i>	34 / 0.417	32 / 0.618	32 / 0.631	29 / 0.583	- / -	29 / 0.583	- / -	- / -	- / -	- / -	- / -	127 / 2.249	
1.1.3) ECP 6472 EA-18G NGJ-MB - NonOrganic <i>Installation 3 of 8</i>	28 / 3.440	32 / 4.010	32 / 4.090	32 / 4.122	- / -	32 / 4.122	23 / 2.962	- / -	- / -	- / -	- / -	147 / 18.624	
1.1.4) BLOS Communication (A-Kit) - NonOrganic <i>Installation 4 of 8</i>	- / -	- / -	- / -	- / -	- / -	- / -	40 / 3.058	40 / 3.119	36 / 2.863	36 / 2.921	8 / 0.662	160 / 12.623	
2.1.10) BLOS Communication (B-Kit) - NonOrganic <i>Installation 4 of 8</i>	- / -	- / -	- / -	- / -	- / -	- / -	40 / 14.301	40 / 14.587	36 / 13.391	36 / 13.659	8 / 3.096	160 / 59.034	
1.1.5) Growler Block 2: Phase I (A Kit) - NonOrganic ⁽²⁾ <i>Installation 5 of 8</i>	- / -	- / -	- / -	28 / 8.109	- / -	28 / 8.109	28 / 8.271	32 / 9.642	32 / 9.835	27 / 8.464	- / -	147 / 44.321	
2.1.8) Growler Block 2: Phase I (B Kit) - NonOrganic ⁽³⁾ <i>Installation 5 of 8</i>	- / -	- / -	- / -	28 / 10.227	- / -	28 / 10.227	28 / 10.432	32 / 12.160	32 / 12.403	27 / 10.675	- / -	147 / 55.897	
1.1.6) Growler Block 2: Phase II (A Kit) - NonOrganic <i>Installation 6 of 8</i>	- / -	- / -	- / -	- / -	- / -	- / -	3 / 0.525	7 / 1.250	7 / 1.274	22 / 4.086	10 / 1.894	49 / 9.029	
2.1.9) Growler Block 2: Phase II (B Kit) - NonOrganic <i>Installation 6 of 8</i>	- / -	- / -	- / -	- / -	- / -	- / -	3 / 21.000	7 / 49.980	7 / 50.980	22 / 163.426	10 / 75.770	49 / 361.156	
2.1.1) ECP 6464 - RFBU - Organic ⁽⁴⁾	- / -	100 / 4.900	140 / 10.360	100 / 7.647	- / -	100 / 7.647	43 / 3.443	- / -	- / -	- / -	- / -	383 / 26.350	
2.1.2) ECP 6482 ASE - (ALQ-218 (WRAs-7) Processor Unit) - NonOrganic ⁽⁵⁾ <i>Installation 7 of 8</i>	50 / 5.142	- / -	32 / 5.457	29 / 5.081	- / -	29 / 5.081	10 / 1.787	22 / 4.172	- / -	- / -	- / -	143 / 21.639	
2.1.3) ECP 6482 ASE - (ALQ-218 (WRAs-8) Digital Measurement Receiver) - NonOrganic ⁽⁶⁾ <i>Installation 7 of 8</i>	50 / 12.043	- / -	32 / 16.671	29 / 15.542	- / -	29 / 15.542	10 / 5.466	22 / 12.675	- / -	- / -	- / -	143 / 62.397	
2.1.4) ECP 6482 ASE - (ALQ-218 (WRAs-9) Power Supply) - NonOrganic ⁽⁷⁾ <i>Installation 7 of 8</i>	50 / 0.693	- / -	32 / 0.881	29 / 0.815	- / -	29 / 0.815	10 / 0.287	22 / 0.668	- / -	- / -	- / -	143 / 3.344	
2.1.5) ECP 6482 Low Band Dedicated Receiver (LBDR) - Organic ⁽⁸⁾	- / -	- / -	48 / 25.459	34 / 12.920	- / -	34 / 12.920	28 / 10.853	28 / 11.070	9 / 3.629	- / -	- / -	147 / 63.931	
2.1.6) ECP 6482 ASE - (ALQ-218 (AEA/GBP) Airborne Electronic Attack Pallet) - NonOrganic <i>Installation 8 of 8</i>	46 / 2.133	32 / 3.180	32 / 3.244	29 / 2.998	- / -	29 / 2.998	- / -	- / -	- / -	- / -	- / -	139 / 11.555	
2.2.1) Installation Equipment N/R - Organic ⁽⁹⁾	- / 2.314	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.314	
2.2.2) EA-18G SCS- H20 - Organic ⁽¹⁰⁾	- / 2.030	- / 2.070	- / 2.111	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 6.211	

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Exhibit P-3a, Individual Modification: PB 2024 Navy										Date: March 2023			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0505 / F-18E/F and EA-18G Modernization and Sustainment						Modification Number / Title: 1 / EA-18G Unique OSIP (011-10)			
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: EA-18G				Modification Type: SAFETY /RELIABILITY/ IMPROVEMENT				Related RDT&E PEs: 0604269N					
Financial Plan <small>(*) Indicates the modification is being installed organically and no installation funds are required.</small>	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
2.2.3) EA-18G SCS - H22 - Organic ^(*) (8)	- / -	- / -	- / -	- / 10.149	- / -	- / 10.149	- / 10.479	- / 13.124	- / -	- / -	- / -	- / 33.752	
2.2.4) Software - Organic ^(*) (9)	- / 8.847	- / 17.882	- / 17.926	- / 17.563	- / -	- / 17.563	- / 13.316	- / 18.907	- / 16.599	- / 10.467	- / -	- / 121.507	
Subtotal: Procurement	- / 37.367	- / 32.974	- / 87.185	- / 96.118	- / -	- / 96.118	- / 106.180	- / 151.354	- / 110.974	- / 213.698	- / 81.422	- / 917.272	
Support													
3.1) Data	- / 1.975	- / 2.014	- / 2.054	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 6.043	
3.2) Support Equipment ⁽¹⁰⁾	- / 0.967	- / 3.615	- / 5.618	- / 5.697	- / -	- / 5.697	- / 2.410	- / 4.950	- / 2.716	- / 0.645	- / -	- / 26.618	
3.3) Training Equipment	- / -	- / 0.612	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.612	
3.4) ILS	- / 4.093	- / 3.394	- / 3.427	- / 3.495	- / -	- / 3.495	- / 3.865	- / 4.113	- / 4.172	- / 4.244	- / 14.053	- / 44.856	
3.5) Other Support	- / 7.431	- / 10.142	- / 7.461	- / 4.545	- / -	- / 4.545	- / 4.851	- / 5.357	- / 5.465	- / 5.581	- / 24.700	- / 75.533	
Subtotal: Support	- / 14.466	- / 19.777	- / 18.560	- / 13.737	- / -	- / 13.737	- / 11.126	- / 14.420	- / 12.353	- / 10.470	- / 38.753	- / 153.662	
Installation													
Installation 1 of 8: ECP 6444 - EA-18G Weight Reduction Initiative	- / 2.309	- / 2.688	- / 2.743	- / 2.240	- / 0.000	- / 2.240	- / 0.839	- / -	- / -	- / -	- / 0.000	- / 10.819	
Installation 2 of 8: ECP 6482 - ASE (ALQ-218 Modifications)	- / 1.132	- / 1.170	- / 1.866	- / 1.474	- / 0.000	- / 1.474	- / 0.685	- / -	- / -	- / -	- / 0.000	- / 6.327	
Installation 3 of 8: ECP 6472 EA-18G NGJ-MB	- / 2.821	- / 3.836	- / 7.828	- / 7.983	- / 0.000	- / 7.983	- / 8.140	- / 5.970	- / -	- / -	- / 0.000	- / 36.578	
Installation 4 of 8: GRP: ECP XXX - BLOS Communication	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.440	- / 2.936	- / 2.846	- / 4.782	- / 12.004	
Installation 5 of 8: GRP: Growler Block 2 ECP XXX Phase I	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.221	- / 0.900	- / 0.950	- / 1.070	- / 1.751	- / 4.892	
Installation 6 of 8: GRP: Growler Block 2 ECP XXX Phase II	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.353	- / 2.760	- / 19.242	- / 23.355	
Installation 7 of 8: GRP: ECP 6482 ASE - (ALQ-218 Modifications (WRAs-7/8/9))	- / 4.923	- / 5.408	- / -	- / 5.515	- / 0.000	- / 5.515	- / 5.098	- / 1.793	- / 4.023	- / -	- / 0.000	- / 26.760	
Installation 8 of 8: ECP 6482 ASE - (ALQ-218 (AEA/GBP) Airborne Electronic Attack Pallet)	- / 0.563	- / 0.523	- / 0.781	- / 0.797	- / 0.000	- / 0.797	- / 0.763	- / -	- / -	- / -	- / 0.000	- / 3.427	
Subtotal: Installation	- / 11.748	- / 13.625	- / 13.218	- / 18.009	- / -	- / 18.009	- / 15.746	- / 10.103	- / 9.262	- / 6.676	- / 25.775	- / 124.162	
Total													
Total Cost (Procurement + Support + Installation)	63.581	66.376	118.963	127.864	0.000	127.864	133.052	175.877	132.589	230.844	145.950	1,195.096	

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy **Date:** March 2023

Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0505 / F-18E/F and EA-18G Modernization and Sustainment	Modification Number / Title: 1 / EA-18G Unique OSIP (011-10)
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ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Installation 1 of 8: ECP 6444 - EA-18G Weight Reduction Initiative

Manufacturer Information

Manufacturer Name: Boeing - ECP 6444	Manufacturer Location: St. Louis
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Administrative Leadtime (in Months): 1	Production Leadtime (in Months): 6
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Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates	Oct 2021	Oct 2022	Oct 2023				
Delivery Dates	Apr 2022	Apr 2023	Apr 2024				

Installation Information

Method of Implementation: Contractor Field Mod Team:: Installation Name: ECP 6444 - EA-18G Weight Reduction Initiative

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	28 / 2.309	16 / 1.330	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	44 / 3.639
FY 2022	- / -	16 / 1.358	16 / 1.358	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	32 / 2.716
FY 2023	- / -	- / -	16 / 1.385	16 / 1.385	0 / 0.000	16 / 1.385	- / -	- / -	- / -	- / -	0 / 0.000	32 / 2.770
FY 2024	- / -	- / -	- / -	10 / 0.855	0 / 0.000	10 / 0.855	9 / 0.839	- / -	- / -	- / -	0 / 0.000	19 / 1.694
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	28 / 2.309	32 / 2.688	32 / 2.743	26 / 2.240	0 / 0.000	26 / 2.240	9 / 0.839	- / -	- / -	- / -	0 / 0.000	127 / 10.819

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot	
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4			
In	28	8	8	8	8	8	8	8	8	8	8	5	5	5	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	127
Out	28	8	8	8	8	8	8	8	8	8	8	5	5	5	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	127

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0505 / F-18E/F and EA-18G Modernization and Sustainment	Modification Number / Title: 1 / EA-18G Unique OSIP (011-10)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Installation 2 of 8: ECP 6482 - ASE (ALQ-218 Modifications)

Manufacturer Information

Manufacturer Name: Boeing - ECP 6482 - ASE (ALQ-218 Modifications) Manufacturer Location: St. Louis, MO

Administrative Leadtime (in Months): 1 Production Leadtime (in Months): 6

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates	Oct 2021	Oct 2022	Oct 2023				
Delivery Dates	Apr 2022	Apr 2023	Apr 2024				

Installation Information

Method of Implementation: Contractor Field Mod Team:: Installation Name: ECP 6482 - ASE (ALQ-218 Modifications)

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	22 / 1.132	12 / 0.682	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	34 / 1.814
FY 2022	- / -	10 / 0.488	22 / 1.070	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	32 / 1.558
FY 2023	- / -	- / -	16 / 0.796	16 / 0.796	0 / 0.000	16 / 0.796	- / -	- / -	- / -	- / -	0 / 0.000	32 / 1.592
FY 2024	- / -	- / -	- / -	14 / 0.678	0 / 0.000	14 / 0.678	15 / 0.685	- / -	- / -	- / -	0 / 0.000	29 / 1.363
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	22 / 1.132	22 / 1.170	38 / 1.866	30 / 1.474	0 / 0.000	30 / 1.474	15 / 0.685	- / -	- / -	- / -	0 / 0.000	127 / 6.327

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot		
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4				
In	22	6	6	5	5	11	11	8	8	8	8	7	7	7	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Out	22	6	6	5	5	11	11	8	8	8	8	7	7	7	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0505 / F-18E/F and EA-18G Modernization and Sustainment	Modification Number / Title: 1 / EA-18G Unique OSIP (011-10)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Installation 3 of 8: ECP 6472 EA-18G NGJ-MB

Manufacturer Information

Manufacturer Name: Northrop Grumman- ECP 6472 NGJ	Manufacturer Location: St. Louis, MO
Administrative Leadtime (in Months): 5	Production Leadtime (in Months): 8

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates	Feb 2022	Feb 2023	Feb 2024	Feb 2025			
Delivery Dates	Oct 2022	Oct 2023	Oct 2024	Oct 2025			

Installation Information

Method of Implementation: Contractor Field Mod Team:: Installation Name: ECP 6472 EA-18G NGJ-MB

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	12 / 2.821	16 / 3.836	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	28 / 6.657
FY 2022	- / -	- / -	32 / 7.828	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	32 / 7.828
FY 2023	- / -	- / -	- / -	32 / 7.983	0 / 0.000	32 / 7.983	- / -	- / -	- / -	- / -	0 / 0.000	32 / 7.983
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	32 / 8.140	- / -	- / -	- / -	0 / 0.000	32 / 8.140
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	23 / 5.970	- / -	- / -	0 / 0.000	23 / 5.970
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	12 / 2.821	16 / 3.836	32 / 7.828	32 / 7.983	0 / 0.000	32 / 7.983	32 / 8.140	23 / 5.970	- / -	- / -	0 / 0.000	147 / 36.578

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	12	6	5	5	-	9	8	8	7	9	8	8	7	9	8	8	7	7	6	6	4	-	-	-	-	-	-	-	-	-	-
Out	12	6	5	5	-	9	8	8	7	9	8	8	7	9	8	8	7	7	6	6	4	-	-	-	-	-	-	-	-	-	-

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy **Date:** March 2023

Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0505 / F-18E/F and EA-18G Modernization and Sustainment	Modification Number / Title: 1 / EA-18G Unique OSIP (011-10)
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ID Code (A=Service Ready, B=Not Service Ready) : **MDAP/MAIS Code:**

Installation 4 of 8: GRP: ECP XXX - BLOS Communication

Manufacturer Information

Manufacturer Name: TBD	Manufacturer Location: TBD
Administrative Leadtime (in Months): 4	Production Leadtime (in Months): 15

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates				Jan 2025	Jan 2026	Jan 2027	Jan 2028
Delivery Dates				Apr 2026	Apr 2027	Apr 2028	Apr 2029

Installation Information

Method of Implementation: Method:: Installation Name: ECP XXX - BLOS Communication

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	40 / 1.440	40 / 1.468	- / -	0 / 0.000	80 / 2.908
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	40 / 1.468	40 / 1.498	0 / 0.000	80 / 2.966
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	36 / 1.348	36 / 1.374	72 / 2.722
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	72 / 2.778	72 / 2.778
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	16 / 0.630	16 / 0.630
Total	- / -	- / -	- / -	- / -	- / -	- / -	- / -	40 / 1.440	80 / 2.936	76 / 2.846	124 / 4.782	320 / 12.004

Installation Schedule

PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	20	20	20	20	20	20	20	20	18	18	124	320
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	20	20	20	20	20	20	20	20	18	18	124	320

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0505 / F-18E/F and EA-18G Modernization and Sustainment	Modification Number / Title: 1 / EA-18G Unique OSIP (011-10)
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:

Installation 5 of 8: GRP: Growler Block 2 ECP XXX Phase I

Manufacturer Information

Manufacturer Name: BOEING	Manufacturer Location: St. Louis, MO
Administrative Leadtime (in Months): 6	Production Leadtime (in Months): 16

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates			Mar 2024	Mar 2025	Mar 2026	Mar 2027	Mar 2028
Delivery Dates			Jul 2025	Jul 2026	Jul 2027	Jul 2028	Jul 2029

Installation Information

Method of Implementation: Method:: Installation Name: Growler Block 2 ECP XXX Phase I

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	14 / 0.221	42 / 0.675	- / -	- / -	0 / 0.000	56 / 0.896
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	14 / 0.225	42 / 0.688	- / -	0 / 0.000	56 / 0.913
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	16 / 0.262	48 / 0.802	0 / 0.000	64 / 1.064
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	16 / 0.268	48 / 0.817	64 / 1.085
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	54 / 0.934	54 / 0.934
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	- / -	- / -	- / -	14 / 0.221	56 / 0.900	58 / 0.950	64 / 1.070	102 / 1.751	294 / 4.892

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14	14	14	14	14	14	14	14	16	16	16	16	16	102	294
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14	14	14	14	14	14	14	14	16	16	16	16	16	102	294

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Exhibit P-3a, Individual Modification: PB 2024 Navy **Date:** March 2023

Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0505 / F-18E/F and EA-18G Modernization and Sustainment	Modification Number / Title: 1 / EA-18G Unique OSIP (011-10)
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ID Code (A=Service Ready, B=Not Service Ready) : **MDAP/MAIS Code:**

Installation 6 of 8: GRP: Growler Block 2 ECP XXX Phase II

Manufacturer Information

Manufacturer Name: BOEING Manufacturer Location: St. Louis, MO

Administrative Leadtime (in Months): 4 Production Leadtime (in Months): 24

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates				Jan 2025	Jan 2026	Jan 2027	Jan 2028
Delivery Dates				Jan 2027	Jan 2028	Jan 2029	Jan 2030

Installation Information

Method of Implementation: Method:: Installation Name: Growler Block 2 ECP XXX Phase II

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	6 / 1.353	- / -	0 / 0.000	6 / 1.353
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	12 / 2.760	2 / 0.469	14 / 3.229
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	14 / 3.294	14 / 3.294
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	44 / 10.577	44 / 10.577
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	20 / 4.902	20 / 4.902
Total	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	6 / 1.353	12 / 2.760	80 / 19.242	98 / 23.355

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	2	2	-	4	4	4	80	98
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	2	2	-	4	4	4	80	98

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Exhibit P-3a, Individual Modification: PB 2024 Navy **Date:** March 2023

Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0505 / F-18E/F and EA-18G Modernization and Sustainment	Modification Number / Title: 1 / EA-18G Unique OSIP (011-10)
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ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Installation 7 of 8: GRP: ECP 6482 ASE - (ALQ-218 Modifications (WRAs-7/8/9))

Manufacturer Information

Manufacturer Name: Northrop Grumman - ECP 6482 WRAs	Manufacturer Location: Various
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Administrative Leadtime (in Months): 3	Production Leadtime (in Months): 10
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Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates		Dec 2022	Dec 2023	Dec 2024	Dec 2025		
Delivery Dates		Oct 2023	Oct 2024	Oct 2025	Oct 2026		

Installation Information

Method of Implementation: Method:: Installation Name: ECP 6482 ASE - (ALQ-218 Modifications (WRAs-7/8/9))

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	54 / 4.923	96 / 5.408	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	150 / 10.331
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	96 / 5.515	0 / 0.000	96 / 5.515	- / -	- / -	- / -	- / -	0 / 0.000	96 / 5.515
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	87 / 5.098	- / -	- / -	- / -	0 / 0.000	87 / 5.098
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	30 / 1.793	- / -	- / -	0 / 0.000	30 / 1.793
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	66 / 4.023	- / -	0 / 0.000	66 / 4.023
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	54 / 4.923	96 / 5.408	- / -	96 / 5.515	0 / 0.000	96 / 5.515	87 / 5.098	30 / 1.793	66 / 4.023	- / -	0 / 0.000	429 / 26.760

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	54	33	33	15	15	-	-	-	-	24	24	24	24	21	21	21	24	9	9	6	6	18	18	15	15	-	-	-	-	-	-
Out	54	33	33	15	15	-	-	-	-	24	24	24	24	21	21	21	24	9	9	6	6	18	18	15	15	-	-	-	-	-	-

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Exhibit P-3a, Individual Modification: PB 2024 Navy **Date:** March 2023

Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0505 / F-18E/F and EA-18G Modernization and Sustainment	Modification Number / Title: 1 / EA-18G Unique OSIP (011-10)
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ID Code (A=Service Ready, B=Not Service Ready) : **MDAP/MAIS Code:**

Installation 8 of 8: ECP 6482 ASE - (ALQ-218 (AEA/GBP) Airborne Electronic Attack Pallet)

Manufacturer Information

Manufacturer Name: Northrop Grumman - ECP 6482 GBP	Manufacturer Location: Various
Administrative Leadtime (in Months): 5	Production Leadtime (in Months): 8

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates	Feb 2022	Feb 2023	Feb 2024				
Delivery Dates	Oct 2022	Oct 2023	Oct 2024				

Installation Information

Method of Implementation: [none specified]:: Installation Name: ECP 6482 ASE - (ALQ-218 (AEA/GBP) Airborne Electronic Attack P

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	24 / 0.563	22 / 0.523	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	46 / 1.086
FY 2022	- / -	- / -	32 / 0.781	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	32 / 0.781
FY 2023	- / -	- / -	- / -	32 / 0.797	0 / 0.000	32 / 0.797	- / -	- / -	- / -	- / -	0 / 0.000	32 / 0.797
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	29 / 0.763	- / -	- / -	- / -	0 / 0.000	29 / 0.763
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	24 / 0.563	22 / 0.523	32 / 0.781	32 / 0.797	0 / 0.000	32 / 0.797	29 / 0.763	- / -	- / -	- / -	0 / 0.000	139 / 3.427

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	24	5	5	6	6	8	8	8	8	8	8	8	8	8	7	7	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Out	24	5	5	6	6	8	8	8	8	8	8	8	8	8	7	7	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Footnotes:
 (1) CE 1.1.1 FY2024 unit cost increased due to contract award final pricing
 (2) CE 1.1.5 FY2023 Growler Block 2 Phase 1 A-kit procurement funding was realigned from cost element 1.1.5 to other cost elements in the 11-10 Growler budget for efforts specifically related to GB2 Phase 1. These efforts which include software modernization and Growler Capability Mod+ (GCM+) procurements are required to have more aircraft in the operational configuration that GB2 Phase 1 will leverage with the A-kit procurement starting in FY2024.

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0505 / F-18E/F and EA-18G Modernization and Sustainment	Modification Number / Title: 1 / EA-18G Unique OSIP (011-10)
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:
<p>(3) CE 2.1.8 FY2023 Growler Block 2 Phase 1 B-kit procurement funding was realigned from cost element 2.1.8 to other cost elements in the 11-10 Growler budget for efforts specifically related to GB2 Phase 1. These efforts which include software modernization and Growler Capability Mod+ (GCM+) procurements are required to have more aircraft in the operational configuration that GB2 Phase 1 will leverage with the A-kit procurement starting in FY2024.</p> <p>(4) CE 2.1.1 FY2024 unit cost increase to reflect approved Engineering Change Proposal (ECP6464)</p> <p>(5) CE 2.1.2 Unit costs will vary depending on installation location for each WRA.</p> <p>(6) CE 2.1.3 Unit costs will vary depending on installation location for each WRA.</p> <p>(7) CE 2.1.4 Unit costs will vary depending on installation location for each WRA.</p> <p>(8) CE 2.2.3 FY2024 increase due to incorporation of Advanced Modes, Reactive Electronic Attack Measures (REAM) and Cognitive EW into H22 software load</p> <p>(9) CE 2.2.4 Software fluctuates due to modification of software affecting the entire Operational Flight Profile (OFP) not limited to a particular H-build</p> <p>(10) CE 3.2 Support Equipment in FY2024 required for Depot-Level standup to support ECP 6482 ASE and ECP 6464 RFBU</p>		

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0505 / F-18E/F and EA-18G Modernization and Sustainment	Modification Number / Title: 2 / Power and Propulsion (11-13)

ID Code (A=Service Ready, B=Not Service Ready) : _____ **MDAP/MAIS Code:** _____

Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	27.176	30.599	10.469	11.766	0.000	11.766	11.770	9.126	27.533	53.075	209.659	391.173
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	27.176	30.599	10.469	11.766	0.000	11.766	11.770	9.126	27.533	53.075	209.659	391.173
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	27.176	30.599	10.469	11.766	0.000	11.766	11.770	9.126	27.533	53.075	209.659	391.173

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

This OSIP incorporates safety and life-limiting propulsion and power corrective actions to resolve safety and readiness concerns. Corrections to design deficiencies found during post production test and evaluation and discovered during fleet operations that have resulted in safety and reliability degradation must be corrected. The requirement to upgrade or modify the engine, system secondary power system, electrical system, and fuel systems is critical in maintaining sustainable fleet reliability, safety, and performance and is necessary to meet mission requirements. Modifications include Generator Converter Unit (GCU), Feeder Wire and Transformer Rectifier Unit (TRU) that are required to support the aircraft power growth for service life extension.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

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Exhibit P-3a, Individual Modification: PB 2024 Navy										Date: March 2023			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0505 / F-18E/F and EA-18G Modernization and Sustainment						Modification Number / Title: 2 / Power and Propulsion (11-13)			
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: F/A-18A-F and EA-18G				Modification Type: Safety, Readiness, Reliability				Related RDT&E PEs:					
Financial Plan <small>(*) Indicates the modification is being installed organically and no installation funds are required.</small>	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total	
	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	
Procurement													
1.1.1) GCU Reliability Upgrade midterm Pt 3 (ECP 6421) G4 - Organic ^(*)	92 / 23.258	67 / 17.790	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	159 / 41.048	
1.1.2) GCU Reliability Upgrade midterm ECP6421 G5 - Organic ^(*)	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	86 / 24.501	172 / 49.982	712 / 192.371	970 / 266.854	
1.1.3) GCU Feeder Wire Modification - NonOrganic Installation 1 of 1	- / -	- / -	29 / 0.354	50 / 0.259	- / -	50 / 0.259	55 / 0.264	65 / 0.269	65 / 0.275	65 / 0.280	101 / 0.447	430 / 2.148	
1.1.4) ECP 1268-21 Transformer Rectifier Unit (TRU) Upgrade - Organic ^(*)	- / -	126 / 8.820	112 / 8.020	120 / 8.739	- / -	120 / 8.739	120 / 8.914	8 / 0.606	- / -	- / -	- / -	486 / 35.099	
1.2.1) Installation Equipment N/R - Organic ^(*)	- / 1.581	- / 1.548	- / -	- / -	- / -	- / -	- / -	- / 5.570	- / -	- / -	- / -	- / 8.699	
Subtotal: Procurement	- / 24.839	- / 28.158	- / 8.374	- / 8.998	- / -	- / 8.998	- / 9.178	- / 6.445	- / 24.776	- / 50.262	- / 192.818	- / 353.848	
Support													
2.1) Data	- / -	- / 0.357	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.357	
2.2) ILS	- / 0.311	- / 0.327	- / 0.303	- / 0.147	- / -	- / 0.147	- / -	- / -	- / -	- / -	- / -	- / 1.088	
2.3) Other Support	- / 2.026	- / 1.757	- / 1.792	- / 1.827	- / -	- / 1.827	- / 1.863	- / 1.900	- / 1.767	- / 1.803	- / 14.167	- / 28.902	
Subtotal: Support	- / 2.337	- / 2.441	- / 2.095	- / 1.974	- / -	- / 1.974	- / 1.863	- / 1.900	- / 1.767	- / 1.803	- / 14.167	- / 30.347	
Installation													
Installation 1 of 1: GCU Feeder Wire Modification	- / -	- / -	- / -	- / 0.794	- / 0.000	- / 0.794	- / 0.729	- / 0.781	- / 0.990	- / 1.010	- / 2.674	- / 6.978	
Subtotal: Installation	- / 0.000	- / -	- / -	- / 0.794	- / -	- / 0.794	- / 0.729	- / 0.781	- / 0.990	- / 1.010	- / 2.674	- / 6.978	
Total													
Total Cost (Procurement + Support + Installation)	27.176	30.599	10.469	11.766	0.000	11.766	11.770	9.126	27.533	53.075	209.659	391.173	

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Exhibit P-3a, Individual Modification: PB 2024 Navy **Date:** March 2023

Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0505 / F-18E/F and EA-18G Modernization and Sustainment	Modification Number / Title: 2 / Power and Propulsion (11-13)
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ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Installation 1 of 1: GCU Feeder Wire Modification

Manufacturer Information

Manufacturer Name: TBD	Manufacturer Location: TBD
Administrative Leadtime (in Months): 3	Production Leadtime (in Months): 10

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates		Dec 2022	Dec 2023	Dec 2024	Dec 2025	Dec 2026	Dec 2027
Delivery Dates		Oct 2023	Oct 2024	Oct 2025	Oct 2026	Oct 2027	Oct 2028

Installation Information

Method of Implementation: [none specified]:: Installation Name: GCU Feeder Wire Modification

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	29 / 0.794	0 / 0.000	29 / 0.794	- / -	- / -	- / -	- / -	0 / 0.000	29 / 0.794
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	50 / 0.729	- / -	- / -	- / -	0 / 0.000	50 / 0.729
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	55 / 0.781	- / -	- / -	0 / 0.000	55 / 0.781
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	65 / 0.990	- / -	0 / 0.000	65 / 0.990
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	65 / 1.010	0 / 0.000	65 / 1.010
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	65 / 1.030	65 / 1.030
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	101 / 1.644	101 / 1.644
Total	- / -	- / -	- / -	29 / 0.794	0 / 0.000	29 / 0.794	50 / 0.729	55 / 0.781	65 / 0.990	65 / 1.010	166 / 2.674	430 / 6.978

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	8	7	7	7	13	13	12	12	14	14	14	13	17	16	16	16	17	16	16	16	166	430
Out	-	-	-	-	-	-	-	-	-	8	7	7	7	13	13	12	12	14	14	14	13	17	16	16	16	17	16	16	16	166	430

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0505 / F-18E/F and EA-18G Modernization and Sustainment	Modification Number / Title: 3 / E/F & EA-18G Correction of Operational Discrepancies (OSIP 14-03)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	120.841	138.750	149.965	161.997	0.000	161.997	154.293	97.500	78.011	72.719	228.098	1,202.174
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	120.841	138.750	149.965	161.997	0.000	161.997	154.293	97.500	78.011	72.719	228.098	1,202.174
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	120.841	138.750	149.965	161.997	0.000	161.997	154.293	97.500	78.011	72.719	228.098	1,202.174

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Corrections to discrepancies discovered during testing and development can sometimes be incorporated into production aircraft, effective with the physical configuration audit which establishes the product baseline of the aircraft. However, when this cannot be done due to time constraints, retrofit of the changes into already delivered aircraft requires funding through the Aircraft Modification Program. Corrections to the following items/conditions are required to meet Commander, Naval Air Force directed transitions as promulgated in the current Master Aviation Plan. This Operational, Safety and Improvement Program (OSIP) will correct operational discrepancies discovered during testing and evaluations, sustainment activities, engineering analysis, standard depot level evaluations, and during normal fleet operations. This OSIP provides resources to correct such issues via Engineering Change Proposal (ECP) and other applicable procurement efforts by modifying, improving, and restoring aircraft structural safety and reliability to designed/required life limits. Modifications are to include: Air Frame Structural Upgrades, such as Flight Controls Surfaces, Forward Fuselage, Aft Fuselage, Inner/Outer Wing, Critical Structures; and Aircraft Subsystem Upgrades, such as Electrical, Hydraulic, Environmental Control Systems (ECS), Fuel, Launch & Recovery, Critical Structures, Mechanical, Secondary Power, Fire Suppression Systems, Blue Angels modifications, and other sustainment activities. This OSIP will provide modifications and upgrades to various subsystems to address diminishing manufacturing sources and material shortages (DMSMS), as well as fielding and retrofit of completed development efforts to include Flight Control Computer (FCC) and Block III.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: Each change has been or will be tested prior to installation in the F/A-18E/F and EA-18G.

NOTE: Kit procurements were budgeted and executed properly, in alignment with planned organic depot inductions. Aircraft inductions have exceeded depot capacity due to many aircraft reaching service life limits at the same time, increased turnaround time due to material degradation and corrosion repairs over and above planned modification efforts, and delays caused by sequestration which increased the number of Out of Reporting (OOR) aircraft. Due to these depot constraints, prior year kit procurements became misaligned with aircraft installations. Depot level kit installations have been impacted by depot throughput constraints and backlog. The install schedules reflected in this budget take into account the current constrained depot throughput and backlog.

ECPs (6416, 6477, 6478, and 6488) for Physiological Episodes (PE) efforts are realigned from OSIP 14-03 to OSIP 13-19 beginning in FY19.

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0505 / F-18E/F and EA-18G Modernization and Sustainment	Modification Number / Title: 3 / E/F & EA-18G Correction of Operational Discrepancies (OSIP 14-03)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Models of Systems Affected: F/A-18 E/F & EA-18G	Modification Type: SAFETY /RELIABILITY/ IMPROVEMENT	Related RDT&E PEs:
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Financial Plan <small>(* Indicates the modification is being installed organically and no installation funds are required.)</small>	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)

Procurement												
1.1.1) ECP-1049 Fuel Pressurization System Check Valve Failure - NonOrganic <i>Installation 1 of 8</i>	19 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	19 / 0.000
1.1.2) ECP-1137NI: Fire Extinguisher Temp Compensating Pressure Switch (TCPS) - NonOrganic <i>Installation 1 of 8</i>	11 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	11 / 0.000
1.1.3) ECP-5046C1 BALD Transponder Rotation - Change Incorporation Level - NonOrganic <i>Installation 1 of 8</i>	12 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	12 / 0.000
1.1.4) ECP-5073: Retrofit of the Trailing Edge Flap Fastener Hole Cold Working - NonOrganic <i>Installation 1 of 8</i>	67 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	67 / 0.000
1.1.5) ECP-6089R1 Engine Bay Door Strut Redesign - NonOrganic <i>Installation 1 of 8</i>	20 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	20 / 0.000
1.1.6) ECP-6106R1 Exhaust Overtemp Final Fix/Bard Stacks - NonOrganic <i>Installation 1 of 8</i>	11 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	11 / 0.000
1.1.7) ECP-6118 Keel Access Cover @ Y631-Y645 - NonOrganic (11) <i>Installation 1 of 8</i>	3 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3 / 0.000
1.1.8) ECP-6188 Y436 Inlet Former - NonOrganic <i>Installation 1 of 8</i>	4 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4 / 0.000
1.1.9) ECP-6193R1/R2 (LEX) Lwr Surface/Structure Cracks Redesign Y286 / Y294 - NonOrganic <i>Installation 1 of 8</i>	20 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	20 / 0.000
1.1.10) ECP-6198 Radar Bay Vent Valve Fail - MSP 862 - NonOrganic <i>Installation 1 of 8</i>	1 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.000
1.1.12) ECP-6227C2/C3 Inlet Nacelle Bleed Plate Crack - NonOrganic <i>Installation 1 of 8</i>	254 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	254 / 0.000
1.1.13) ECP-6234C1 Horizontal Stabilator/Fuselage Rubbing - NonOrganic <i>Installation 1 of 8</i>	70 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	70 / 0.000
1.1.14) ECP-6240R1 / FT50 18K MLG Sidebrace Fitting Failure - NonOrganic <i>Installation 1 of 8</i>	262 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	262 / 0.000

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0505 / F-18E/F and EA-18G Modernization and Sustainment	Modification Number / Title: 3 / E/F & EA-18G Correction of Operational Discrepancies (OSIP 14-03)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Models of Systems Affected: F/A-18 E/F & EA-18G	Modification Type: SAFETY /RELIABILITY/ IMPROVEMENT	Related RDT&E PEs:
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Financial Plan <small>(*) Indicates the modification is being installed organically and no installation funds are required.</small>	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
1.1.15) ECP-6322 Dry Bay Fire Suppression System (DBFSS) - NonOrganic <i>Installation 1 of 8</i>	116 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	116 / 0.000
1.1.16) ECP-6325R1 Y618 Inbrd Former / Keel Longeron Arrestment Load - NonOrganic <i>Installation 1 of 8</i>	119 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	119 / 0.000
1.1.17) ECP-6353 F/A-18E/F Lower Wing Hinge Corrosion Improvements - NonOrganic <i>Installation 1 of 8</i>	73 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	73 / 0.000
1.1.18) ECP-6366 Outer-Wing Inboard Aileron Hinge and SPAR 4 - NonOrganic <i>Installation 1 of 8</i>	78 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	78 / 0.000
1.1.19) ECP-6388 Outer-Wing Water Drainage Provisions - NonOrganic <i>Installation 1 of 8</i>	112 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	112 / 0.000
1.1.20) ECP-6394R1: F/A-18E/F Horizontal Stab Gang Channel Corrosion-AYC-1682 - NonOrganic ⁽¹²⁾ <i>Installation 1 of 8</i>	425 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	425 / 0.000
1.1.23) ECP-6416 Environment Control Sys Anti-Ice Duct Bracket - NonOrganic <i>Installation 1 of 8</i>	204 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	204 / 0.000
1.1.24) ECP-6428 Removal of Vertical Tail Drain Common to Fuel Vent Tank - NonOrganic ⁽¹³⁾ <i>Installation 1 of 8</i>	158 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	158 / 0.000
1.1.38) ECP-6495 STS Electrohydraulic Test Stand Obsolescence Upgrade - NonOrganic <i>Installation 1 of 8</i>	8 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	8 / 0.000
1.1.41) Fatigue Test (FT) 50 (Structures) Prior Year ECPs - NonOrganic ⁽¹⁴⁾ <i>Installation 1 of 8</i>	398 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	398 / 0.000
1.1.43) Fatigue Test (FT) 76/77/78 (Wing) Prior Year ECPs - NonOrganic ⁽¹⁵⁾ <i>Installation 1 of 8</i>	220 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	220 / 0.000
1.1.44) Main Landing Gear (MLG) Prior Year ECPs - NonOrganic ⁽¹⁶⁾ <i>Installation 1 of 8</i>	22 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	22 / 0.000
1.1.11) ECP-6213R2 / TEF Redesign - Organic ^(*)	48 / 40.744	48 / 41.559	60 / 58.010	48 / 47.336	- / -	48 / 47.336	44 / 44.259	- / -	- / -	- / -	- / -	248 / 231.908
1.1.21) ECP-6394R1 Horizontal Stabilator Gang Channel Corrosion - AYC-1717 - NonOrganic	93 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	15 / 0.139	15 / 0.142	45 / 0.433	285 / 2.929	453 / 3.643

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
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ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Models of Systems Affected: F/A-18 E/F & EA-18G	Modification Type: SAFETY /RELIABILITY/ IMPROVEMENT	Related RDT&E PEs:
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Financial Plan <small>(*) Indicates the modification is being installed organically and no installation funds are required.</small>	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
<i>Installation 2 of 8</i>												
1.1.22) ECP-6392C2 F/A-18E/F & EA-18G Alternate Angle-of-Attack Transmitter - Organic ^(*)	240 / 5.066	224 / 4.823	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	464 / 9.889
1.1.25) ECP-6430 Enhancement of the Aft Pivot Support Fitting - NonOrganic <i>Installation 3 of 8</i>	407 / 0.000	- / -	- / -	72 / 0.720	- / -	72 / 0.720	72 / 0.735	65 / 0.676	- / -	- / -	- / -	616 / 2.131
1.1.26) ECP-XX12 FT50 Tear-down Bulkhead Cracking - NonOrganic <i>Installation 4 of 8</i>	- / -	72 / 1.036	72 / 1.057	72 / 1.078	- / -	72 / 1.078	37 / 0.565	- / -	- / -	- / -	- / -	253 / 3.736
1.1.27) ECP-XX33 / Hydraulics Components Improvement - NonOrganic <i>Installation 4 of 8</i>	- / -	72 / 0.073	72 / 0.074	72 / 0.076	- / -	72 / 0.076	11 / 0.012	- / -	- / -	- / -	- / -	227 / 0.235
1.1.28) ECP-XX45 / FT50 Structural Related Issues - NonOrganic <i>Installation 4 of 8</i>	- / -	72 / 6.634	72 / 6.766	72 / 6.902	- / -	72 / 6.902	72 / 7.040	37 / 3.690	- / -	- / -	- / -	325 / 31.032
1.1.29) ECP-XX47 Flight Control Surfaces Failures - NonOrganic <i>Installation 4 of 8</i>	- / -	72 / 4.688	72 / 4.782	72 / 4.877	- / -	72 / 4.877	72 / 4.975	37 / 2.608	- / -	- / -	- / -	325 / 21.930
1.1.30) ECP-XX48 / Fuel Tank Wiring Retrofit Improvements - NonOrganic <i>Installation 4 of 8</i>	- / -	72 / 0.469	72 / 0.478	72 / 0.488	- / -	72 / 0.488	72 / 0.498	72 / 0.508	72 / 0.518	37 / 0.272	- / -	469 / 3.231
1.1.31) ECP-XX50: F/A-18E/F Fuel Related Upgrade Issues - Organic ^(*)	100 / 0.640	100 / 0.652	100 / 0.665	100 / 0.679	- / -	100 / 0.679	100 / 0.692	- / -	- / -	- / -	- / -	500 / 3.328
1.1.32) ECP-XX51 / F/A-18E/F ECS Subsystem Upgrade Issues - NonOrganic <i>Installation 5 of 8</i>	72 / 0.520	72 / 0.531	140 / 1.052	72 / 0.552	- / -	72 / 0.552	72 / 0.563	144 / 1.148	- / -	- / -	- / -	572 / 4.366
1.1.33) ECP-XX52 / F/A-18E/F Subsystem Retrofit Upgrade Issues - NonOrganic <i>Installation 5 of 8</i>	72 / 0.651	72 / 0.664	140 / 1.316	72 / 0.691	- / -	72 / 0.691	72 / 0.704	144 / 1.436	- / -	- / -	- / -	572 / 5.462
1.1.34) ECP-XX53 / F/A-18E/F Structure Stress Corrosion Cracking Issues - NonOrganic <i>Installation 5 of 8</i>	72 / 1.734	72 / 1.769	140 / 3.508	72 / 1.840	- / -	72 / 1.840	72 / 1.877	144 / 3.828	- / -	- / -	- / -	572 / 14.556
1.1.35) ECP-XX60: NACES Retrofit Upgrades - Organic ^(*)	100 / 1.754	100 / 1.789	100 / 1.825	100 / 1.862	- / -	100 / 1.862	100 / 1.899	- / -	- / -	- / -	- / -	500 / 9.129
1.1.36) ECP-6475 Aux Power Unit Hydraulic Accumulator Support Bracket - NonOrganic <i>Installation 6 of 8</i>	144 / 0.440	72 / 0.449	72 / 0.458	72 / 0.467	- / -	72 / 0.467	72 / 0.476	41 / 0.027	- / -	- / -	- / -	436 / 2.317
1.1.37) ECP-6480: Navy Flight Demo Squadron (Blue Angels) Super Hornet - NonOrganic <i>Installation 7 of 8</i>	5 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	5 / 0.000
1.1.40) ECP6530 TORQU Shaft Seals - Organic ^(*)	- / -	- / -	- / -	601 / 1.592	- / -	601 / 1.592	- / -	- / -	- / -	- / -	- / -	601 / 1.592

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Exhibit P-3a, Individual Modification: PB 2024 Navy										Date: March 2023			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0505 / F-18E/F and EA-18G Modernization and Sustainment					Modification Number / Title: 3 / E/F & EA-18G Correction of Operational Discrepancies (OSIP 14-03)			
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: F/A-18 E/F & EA-18G				Modification Type: SAFETY /RELIABILITY/ IMPROVEMENT				Related RDT&E PEs:					
Financial Plan <small>(* Indicates the modification is being installed organically and no installation funds are required.)</small>	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
1.1.42) ECP6521 ACADS Avionics Cooling Air Distribution System - NonOrganic - NonOrganic <i>Installation 8 of 8</i>	2 / 0.000	40 / 1.242	40 / 1.267	40 / 1.292	- / -	40 / 1.292	40 / 1.318	40 / 1.344	40 / 1.371	40 / 1.398	157 / 5.766	439 / 14.998	
1.1.45) Flight Control Computer (FCC) Processor Module - Organic ⁽¹⁾	- / -	- / -	- / -	- / -	- / -	- / -	- / -	26 / 3.366	48 / 6.339	48 / 6.466	48 / 6.595	170 / 22.766	
1.2.1) Installation Kits N/R - Organic ⁽¹⁷⁾	- / 16.949	- / 17.859	- / 14.983	- / 17.636	- / -	- / 17.636	- / 20.869	- / 18.433	- / 16.063	- / 15.073	- / 23.065	- / 160.930	
1.2.2) Software - Organic ⁽¹⁸⁾	- / -	- / -	- / 3.410	- / 17.934	- / -	- / 17.934	- / 5.769	- / 5.579	- / 5.690	- / 5.499	- / 18.159	- / 52.040	
Subtotal: Procurement	- / 68.498	- / 84.237	- / 99.651	- / 96.022	- / -	- / 96.022	- / 92.251	- / 42.782	- / 30.123	- / 29.141	- / 56.514	- / 599.219	
Support													
2.1) Support Equipment	- / 2.171	- / 2.858	- / 2.771	- / 2.826	- / -	- / 2.826	- / 2.883	- / 3.016	- / 3.011	- / 3.071	- / 9.636	- / 32.243	
2.2) ILS	- / 16.318	- / 16.644	- / 16.888	- / 17.225	- / -	- / 17.225	- / 16.739	- / 16.775	- / 17.080	- / 16.931	- / 93.438	- / 228.038	
2.3) Other Support	- / 14.021	- / 18.430	- / 9.545	- / 9.735	- / -	- / 9.735	- / 9.877	- / 10.067	- / 10.271	- / 10.481	- / 56.695	- / 149.122	
Subtotal: Support	- / 32.510	- / 37.932	- / 29.204	- / 29.786	- / -	- / 29.786	- / 29.499	- / 29.858	- / 30.362	- / 30.483	- / 159.769	- / 409.403	
Installation													
Installation 1 of 8: GRP: Prior Year Procurements	- / 15.533	- / 12.129	- / 16.664	- / 18.036	- / 0.000	- / 18.036	- / 12.433	- / 6.547	- / 1.828	- / 0.680	- / 0.328	- / 84.178	
Installation 2 of 8: ECP-6394R1 Horizontal Stabilator Gang Channel Corrosion - AYC-1717	- / -	- / -	- / 0.025	- / 0.522	- / 0.000	- / 0.522	- / 0.546	- / -	- / 0.219	- / 0.223	- / 5.274	- / 6.809	
Installation 3 of 8: ECP-6430 Enhancement of the Aft Pivot Support Fitting	- / 0.234	- / 0.405	- / 1.514	- / 3.132	- / 0.000	- / 3.132	- / 3.195	- / 3.210	- / 1.624	- / 1.485	- / 0.000	- / 14.799	
Installation 4 of 8: GRP: E/F/G Concurrent Installs	- / -	- / -	- / -	- / 11.535	- / 0.000	- / 11.535	- / 11.753	- / 12.010	- / 11.762	- / 6.013	- / 0.510	- / 53.583	
Installation 5 of 8: GRP: E/F Concurrent Installs	- / -	- / -	- / 1.631	- / 1.664	- / 0.000	- / 1.664	- / 3.301	- / 1.751	- / 1.006	- / 3.603	- / 0.000	- / 12.956	
Installation 6 of 8: ECP-6475 Aux Power Unit Hydraulic Accumulator Support Bracket	- / 0.274	- / 0.281	- / 0.287	- / 0.292	- / 0.000	- / 0.292	- / 0.287	- / 0.293	- / 0.017	- / -	- / 0.000	- / 1.731	
Installation 7 of 8: ECP-6480: Navy Flight Demo Squadron (Blue Angels) Super Hornet	- / 3.792	- / 3.734	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 17.526	
Installation 8 of 8: ECP6521 ACADS Avionics Cooling Air Distribution System - NonOrganic	- / -	- / 0.032	- / 0.989	- / 1.008	- / 0.000	- / 1.008	- / 1.028	- / 1.049	- / 1.070	- / 1.091	- / 5.703	- / 11.970	
Subtotal: Installation	- / 19.833	- / 16.581	- / 21.110	- / 36.189	- / -	- / 36.189	- / 32.543	- / 24.860	- / 17.526	- / 13.095	- / 11.815	- / 193.552	
Total													
Total Cost (Procurement + Support + Installation)	120.841	138.750	149.965	161.997	0.000	161.997	154.293	97.500	78.011	72.719	228.098	1,202.174	

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0505 / F-18E/F and EA-18G Modernization and Sustainment	Modification Number / Title: 3 / E/F & EA-18G Correction of Operational Discrepancies (OSIP 14-03)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Installation 1 of 8: GRP: Prior Year Procurements

Manufacturer Information

Manufacturer Name: Not Specified.	Manufacturer Location: Not Specified..
Administrative Leadtime (in Months): 0	Production Leadtime (in Months): 0

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates							
Delivery Dates							

Installation Information

Method of Implementation: Navy Drive-in Modification:: Installation Name: Prior Year Procurements

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	347 / 15.533	474 / 12.129	526 / 16.664	495 / 18.036	0 / 0.000	495 / 18.036	343 / 12.433	221 / 6.547	115 / 1.828	93 / 0.680	73 / 0.328	2,687 / 84.178
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	347 / 15.533	474 / 12.129	526 / 16.664	495 / 18.036	0 / 0.000	495 / 18.036	343 / 12.433	221 / 6.547	115 / 1.828	93 / 0.680	73 / 0.328	2,687 / 84.178

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	347	124	121	116	113	140	133	130	123	127	127	123	118	89	90	85	79	59	58	55	49	31	30	28	26	25	24	23	21	73	2,687
Out	347	124	121	116	113	140	133	130	123	127	127	123	118	89	90	85	79	59	58	55	49	31	30	28	26	25	24	23	21	73	2,687

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0505 / F-18E/F and EA-18G Modernization and Sustainment	Modification Number / Title: 3 / E/F & EA-18G Correction of Operational Discrepancies (OSIP 14-03)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Installation 2 of 8: ECP-6394R1 Horizontal Stabilator Gang Channel Corrosion - AYC-1717

Manufacturer Information

Manufacturer Name: Boeing	Manufacturer Location: St Louis, MO
Administrative Leadtime (in Months): 6	Production Leadtime (in Months): 7

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates					Mar 2026	Mar 2027	Mar 2028
Delivery Dates					Oct 2026	Oct 2027	Oct 2028

Installation Information

Method of Implementation: Navy Field Modification Team:: Installation Name: ECP-6394R1 Horizontal Stabilator Gang Channel Cor

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	16 / 0.025	38 / 0.522	0 / 0.000	38 / 0.522	39 / 0.546	- / -	- / -	- / -	0 / 0.000	93 / 1.093
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	15 / 0.219	- / -	0 / 0.000	15 / 0.219
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	15 / 0.223	0 / 0.000	15 / 0.223
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	45 / 0.682	45 / 0.682
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	285 / 4.592	285 / 4.592
Total	- / -	- / -	16 / 0.025	38 / 0.522	0 / 0.000	38 / 0.522	39 / 0.546	- / -	15 / 0.219	15 / 0.223	330 / 5.274	453 / 6.809

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	4	4	4	4	10	10	9	9	10	10	10	9	-	-	-	-	3	4	4	4	3	4	4	4	330	453
Out	-	-	-	-	-	4	4	4	4	10	10	9	9	10	10	10	9	-	-	-	-	3	4	4	4	3	4	4	4	330	453

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0505 / F-18E/F and EA-18G Modernization and Sustainment	Modification Number / Title: 3 / E/F & EA-18G Correction of Operational Discrepancies (OSIP 14-03)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Installation 3 of 8: ECP-6430 Enhancement of the Aft Pivot Support Fitting

Manufacturer Information

Manufacturer Name: Boeing	Manufacturer Location: St. Louis, MO
Administrative Leadtime (in Months): 3	Production Leadtime (in Months): 24

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates			Dec 2023	Dec 2024	Dec 2025		
Delivery Dates			Dec 2025	Dec 2026	Dec 2027		

Installation Information

Method of Implementation: Navy Field Modification Team:: Installation Name: ECP-6430 Enhancement of the Aft Pivot Support Fitt

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	11 / 0.234	32 / 0.405	72 / 1.514	146 / 3.132	0 / 0.000	146 / 3.132	146 / 3.195	- / -	- / -	- / -	0 / 0.000	407 / 8.480
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	72 / 3.210	- / -	- / -	0 / 0.000	72 / 3.210
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	72 / 1.624	- / -	0 / 0.000	72 / 1.624
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	65 / 1.485	0 / 0.000	65 / 1.485
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	11 / 0.234	32 / 0.405	72 / 1.514	146 / 3.132	0 / 0.000	146 / 3.132	146 / 3.195	72 / 3.210	72 / 1.624	65 / 1.485	0 / 0.000	616 / 14.799

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	11	8	8	8	8	18	18	18	18	37	37	36	36	37	37	36	36	-	24	24	24	-	24	24	24	-	22	22	21	-	616
Out	11	8	8	8	8	18	18	18	18	37	37	36	36	37	37	36	36	-	24	24	24	-	24	24	24	-	22	22	21	-	616

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0505 / F-18E/F and EA-18G Modernization and Sustainment	Modification Number / Title: 3 / E/F & EA-18G Correction of Operational Discrepancies (OSIP 14-03)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Installation 4 of 8: GRP: E/F/G Concurrent Installs

Manufacturer Information

Manufacturer Name: Boeing - E/F A-kits	Manufacturer Location: St Louis, MO
Administrative Leadtime (in Months): 9	Production Leadtime (in Months): 16

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates	Jun 2022	Jun 2023	Jun 2024	Jun 2025	Jun 2026	Jun 2027	Jun 2028
Delivery Dates	Oct 2023	Oct 2024	Oct 2025	Oct 2026	Oct 2027	Oct 2028	Oct 2029

Installation Information

Method of Implementation: Navy Drive-in Modification:: Installation Name: E/F/G Concurrent Installs

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	360 / 11.535	0 / 0.000	360 / 11.535	- / -	- / -	- / -	- / -	0 / 0.000	360 / 11.535
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	360 / 11.753	- / -	- / -	- / -	0 / 0.000	360 / 11.753
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	360 / 12.010	- / -	- / -	0 / 0.000	360 / 12.010
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	264 / 11.762	- / -	0 / 0.000	264 / 11.762
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	146 / 6.013	0 / 0.000	146 / 6.013
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	72 / 0.401	72 / 0.401
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	37 / 0.109	37 / 0.109
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	360 / 11.535	0 / 0.000	360 / 11.535	360 / 11.753	360 / 12.010	264 / 11.762	146 / 6.013	109 / 0.510	1,599 / 53.583

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	90	90	90	90	90	90	90	90	90	90	90	90	67	66	66	65	38	36	36	36	109	1,599
Out	-	-	-	-	-	-	-	-	-	90	90	90	90	90	90	90	90	90	90	90	90	67	66	66	65	38	36	36	36	109	1,599

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0505 / F-18E/F and EA-18G Modernization and Sustainment	Modification Number / Title: 3 / E/F & EA-18G Correction of Operational Discrepancies (OSIP 14-03)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Installation 5 of 8: GRP: E/F Concurrent Installs

Manufacturer Information

Manufacturer Name: Various - E/F Concurrent Installs	Manufacturer Location: Various
Administrative Leadtime (in Months): 9	Production Leadtime (in Months): 16

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates	Jun 2022	Jun 2023	Jun 2024	Jun 2025	Jun 2026		
Delivery Dates	Oct 2023	Oct 2024	Oct 2025	Oct 2026	Oct 2027		

Installation Information

Method of Implementation: Navy Drive-in Modification:: Installation Name: E/F Concurrent Installs

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	216 / 1.631	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	216 / 1.631
FY 2022	- / -	- / -	- / -	216 / 1.664	0 / 0.000	216 / 1.664	- / -	- / -	- / -	- / -	0 / 0.000	216 / 1.664
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	420 / 3.301	- / -	- / -	- / -	0 / 0.000	420 / 3.301
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	216 / 1.751	- / -	- / -	0 / 0.000	216 / 1.751
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	216 / 1.006	- / -	0 / 0.000	216 / 1.006
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	432 / 3.603	0 / 0.000	432 / 3.603
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	216 / 1.631	216 / 1.664	0 / 0.000	216 / 1.664	420 / 3.301	216 / 1.751	216 / 1.006	432 / 3.603	0 / 0.000	1,716 / 12.956

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	54	54	54	54	54	54	54	54	105	105	105	105	54	54	54	54	54	54	54	54	108	108	108	108	-	1,716
Out	-	-	-	-	-	54	54	54	54	54	54	54	54	105	105	105	105	54	54	54	54	54	54	54	54	108	108	108	108	-	1,716

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0505 / F-18E/F and EA-18G Modernization and Sustainment	Modification Number / Title: 3 / E/F & EA-18G Correction of Operational Discrepancies (OSIP 14-03)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Installation 6 of 8: ECP-6475 Aux Power Unit Hydraulic Accumulator Support Bracket

Manufacturer Information

Manufacturer Name: Boeing - ECP-6475 Aux Power Unit Hydraulic Accumulator Support Bracket	Manufacturer Location: St Louis, MO
Administrative Leadtime (in Months): 6	Production Leadtime (in Months): 7

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates	Mar 2022	Mar 2023	Mar 2024	Mar 2025	Mar 2026		
Delivery Dates	Oct 2022	Oct 2023	Oct 2024	Oct 2025	Oct 2026		

Installation Information

Method of Implementation: Navy Drive-in Modification:: Installation Name: ECP-6475 Aux Power Unit Hydraulic Accumulator Suppor

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	72 / 0.274	72 / 0.281	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	144 / 0.555
FY 2022	- / -	- / -	72 / 0.287	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	72 / 0.287
FY 2023	- / -	- / -	- / -	72 / 0.292	0 / 0.000	72 / 0.292	- / -	- / -	- / -	- / -	0 / 0.000	72 / 0.292
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	72 / 0.287	- / -	- / -	- / -	0 / 0.000	72 / 0.287
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	72 / 0.293	- / -	- / -	0 / 0.000	72 / 0.293
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4 / 0.017	- / -	0 / 0.000	4 / 0.017
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	72 / 0.274	72 / 0.281	72 / 0.287	72 / 0.292	0 / 0.000	72 / 0.292	72 / 0.287	72 / 0.293	4 / 0.017	- / -	0 / 0.000	436 / 1.731

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	72	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	1	1	1	1	-	-	-	-	-	436
Out	72	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	1	1	1	1	-	-	-	-	-	436

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0505 / F-18E/F and EA-18G Modernization and Sustainment	Modification Number / Title: 3 / E/F & EA-18G Correction of Operational Discrepancies (OSIP 14-03)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Installation 7 of 8: ECP-6480: Navy Flight Demo Squadron (Blue Angels) Super Hornet

Manufacturer Information

Manufacturer Name: Various - ECP-6480: Navy Flight Demo Squadron (Blue Angels) Super Hornet	Manufacturer Location: Various
Administrative Leadtime (in Months): 0	Production Leadtime (in Months): 0

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates							
Delivery Dates							

Installation Information

Method of Implementation: Navy Field Modification Team:: Installation Name: ECP-6480: Navy Flight Demo Squadron (Blue Angels)

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	4 / 3.792	1 / 3.734	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	5 / 7.526
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	4 / 3.792	1 / 3.734	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	5 / 7.526

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot	
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4			
In	4	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5
Out	4	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0505 / F-18E/F and EA-18G Modernization and Sustainment	Modification Number / Title: 3 / E/F & EA-18G Correction of Operational Discrepancies (OSIP 14-03)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Installation 8 of 8: ECP6521 ACADS Avionics Cooling Air Distribution System - NonOrganic

Manufacturer Information

Manufacturer Name: ECP6521 ACADS Avionics Cooling Air Distribution System	Manufacturer Location: TBD
Administrative Leadtime (<i>in Months</i>): 3	Production Leadtime (<i>in Months</i>): 10

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates	Dec 2021	Dec 2022	Dec 2023	Dec 2024	Dec 2025	Dec 2026	Dec 2027
Delivery Dates	Oct 2022	Oct 2023	Oct 2024	Oct 2025	Oct 2026	Oct 2027	Oct 2028

Installation Information

Method of Implementation: Navy Field Modification Team:: Installation Name: ECP6521 ACADS Avionics Cooling Air Distribution Sy

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	2 / 0.032	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	2 / 0.032
FY 2022	- / -	- / -	40 / 0.989	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	40 / 0.989
FY 2023	- / -	- / -	- / -	40 / 1.008	0 / 0.000	40 / 1.008	- / -	- / -	- / -	- / -	0 / 0.000	40 / 1.008
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	40 / 1.028	- / -	- / -	- / -	0 / 0.000	40 / 1.028
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	40 / 1.049	- / -	- / -	0 / 0.000	40 / 1.049
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	40 / 1.070	- / -	0 / 0.000	40 / 1.070
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	40 / 1.091	0 / 0.000	40 / 1.091
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	40 / 1.113	40 / 1.113
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	157 / 4.590	157 / 4.590
Total	- / -	2 / 0.032	40 / 0.989	40 / 1.008	0 / 0.000	40 / 1.008	40 / 1.028	40 / 1.049	40 / 1.070	40 / 1.091	197 / 5.703	439 / 11.970

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot		
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4				
In	-	-	1	1	-	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	197	439	
Out	-	-	1	1	-	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	197	439

Footnotes:
⁽¹¹⁾ CE 1.1.7 Kits were procured under LI-0525 OSIP 19-01, starting in FY10, installs are funded under OSIP 14-03
⁽¹²⁾ CE 1.1.20 ECP-6394R1 AYC-1682 is a drain hole, and there is no cost for kits.

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0505 / F-18E/F and EA-18G Modernization and Sustainment	Modification Number / Title: 3 / E/F & EA-18G Correction of Operational Discrepancies (OSIP 14-03)
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:
<p>(13) CE 1.1.24 All kits were provided by OEM as in warranty. In FY18 procurement of 200 "on-condition" fittings (\$143K) via FRCSE Manufacturing.</p> <p>(14) CE 1.1.41 This cost element includes the following ECPs related to Fatigue Test (FT) 50 for Structures: ECP-6183R1 FT50 Failure of Upper Wing Skin Splice Plate; ECP-6239R1 FT50 18K Fuselage Outboard Formal @Y679 Failure; ECP-6247R1 FT50 18K Y520 Former Cracks at Lower Drop Link; ECP-6266 FT50 18K Y555.5 and Y568 Former Cracks at Keel Longeron Life Limit; ECP-6303R1 FT50 18K Y577 Former Redesign; ECP-6304R1 FT50 18K Web and Wing Drag Longeron Redesign; ECP-6306R1 FT50 18K Y618 Inboard Former (74A342314) Redesign; ECP-6326 FT50 Fuel Barrier Web at Y510; ECP-6408C1 F/A-18 E/F FT50 Y233 Bulkhead Z90 Floor Attachment Retrofit; ECP-6411 F/A-18 E/F FT50 Inner-Wing Upper Splice Fitting @ Aft Fastner Skin</p> <p>(15) CE 1.1.43 This cost element includes the following ECPs related to Fatigue Tests (FTs) 76/77/78 for Wings: ECP-6243 FT76 Jackpoint Support Fitting Life Limit; ECP-6275C1 FT77 Wing Inboard Closure Rib Life Limit; ECP-6282 FT50/FT77 Post CRI Inner Wing Retrofit; ECP-6285C1: FT77 Lower Wing Skin Splice Fitting Life Limit; ECP-6292 FT76 Avionics Bay 3 & 4 Door Hinges; ECP-6295 FT77 Wing Spar 6 Life Limit; ECP-6309 FT77 Retrofit ECP for the Outer Wing; ECP-6341 FT77/78 Aileron Retrofit</p> <p>(16) CE 1.1.44 This cost element includes the following ECPs related to the Main Landing Gear (MLG): ECP-6104 MLG Door Bushing Migration ECP-6194 MLG Trunnion Bearing Loose Retention Nut ECP-6196C1 MLG R/H Upper Planing Link Attach Fitting Failure</p> <p>(17) CE 1.2.1 FY2024 through FYDP increase for Repair Incident to Modification (RIM). Funding is budgeted based on repair requirements that will need to occur to complete modifications.</p> <p>(18) CE 1.2.2 FY2024 funding increases for software related to H-Builds for F/A-18 Aircraft</p>		

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0505 / F-18E/F and EA-18G Modernization and Sustainment	Modification Number / Title: 4 / F/A-18E/F and EA-18G SLEP (OSIP 020-14)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	174.807	209.996	273.452	303.789	0.000	303.789	232.120	290.864	354.751	414.747	4,960.524	7,215.050
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	174.807	209.996	273.452	303.789	0.000	303.789	232.120	290.864	354.751	414.747	4,960.524	7,215.050
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	174.807	209.996	273.452	303.789	0.000	303.789	232.120	290.864	354.751	414.747	4,960.524	7,215.050

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Incorporation of structural and sub-systems enhancements and changes are required to extend the F/A-18E/F service life and maintain sufficient aircraft inventory to meet fleet operational requirements through FY2046. Enhancements and changes include resolution of discrepancies identified as a result of Service Life Assessment Program (SLAP) analysis and in-service experience. These enhancements and changes include modifications to the entire airframe and aircraft sub-systems to extend flight hours, as well as modifications to ensure landing gear, catapult and attachment components can extend total landings. These modifications include: Block 1 Forward Fuselage, Block 2 Forward Fuselage, Inner Wing Panel (Pre-CRI), Inner Wing Panel (CRI), Outer Wing Panel (Pre-CRI), Outer Wing Panel (CRI), Center Fuselage, Aft Fuselage, Vertical Tail, Hydraulic Systems, Landing Gear Systems, Fuel Delivery Systems, Environmental Control Systems, and Mechanical Systems. The unacceptable alternative to retrofitting would be the failure to reach full fatigue life for these aircraft and to not correct the structural defects discovered on fatigue test articles. In many cases, the mission capability of the aircraft would be adversely affected in addition to its reduced service life. As a result, aircraft may be prematurely removed from useful service. SLAP analyzes the critical structural and sub-system areas to determine crack initiation. Service Life Extension Program (SLEP) will transition into a full turn-key operation to install SLEP kits, safety of flight technical directives (TDs) and other relevant TDs, funded from other OSIPs to achieve the Service Life Modification (SLM). The aircraft will be inducted by the Original Equipment Manufacturer (OEM) and returned to the fleet as a fully modified aircraft with an extended service life to achieve fleet missions.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

Currently all Lot 21 through 42 aircraft have service life limits established by the F/A-18 and EA-18G Service Life Bulletin not inclusive of service life management plan modifications to extend the service life. The OEMs are currently performing structures and sub-systems SLAP. As SLAP analysis is completed, "hot spots" are reviewed to determine the best approach for extending specific areas of concern. NRE for service life modifications is grouped into one of five series of Zonal ECPs (6465, 6466, 6467, 6468, and 6469) according to aircraft block and location. Zonal ECP NRE will continue as well as additional structures and subsystems ECPs, to include five North Island (NI) ECPs (1230, 1272, 1274, 1275, and 1276). In an effort to reduce exigent procurement lead times and resulting high out-of-reporting rates associated with traditional, disparate piece part procurements and installation, SLM relies on a turn-key approach utilizing the OEM to extend aircraft service life. SLM includes all material / kit and labor / installation costs to modify service life from 6,000 flight hours to 10,000 flight hours. NRE will continue until a SLEP full kit (all zonal, additional structural and subsystems ECPs) are validated/verified and formal ECPs/TDs are released.

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0505 / F-18E/F and EA-18G Modernization and Sustainment	Modification Number / Title: 4 / F/A-18E/F and EA-18G SLEP (OSIP 020-14)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Models of Systems Affected: F/A-18E/F and EA-18G	Modification Type: SAFETY / LIFE EXTENSION	Related RDT&E PEs:
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Financial Plan <small>(*) Indicates the modification is being installed organically and no installation funds are required.</small>	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Procurement												
1.1.1) Service Life Extension (SLEP) kits - Organic ^(*) (19)	12 / 142.951	15 / 174.758	22 / 236.676	26 / 265.858	- / -	26 / 265.858	20 / 201.499	25 / 253.738	30 / 317.181	35 / 377.446	405 / 4,724.500	590 / 6,694.607
1.1.2) A-Kits Archived - Organic ^(*)	4 / 0.203	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4 / 0.203
1.2.1) Installation Kit N/R - Organic ^(*) (20)	- / 11.170	- / 14.272	- / 14.484	- / 15.247	- / -	- / 15.247	- / 17.473	- / 13.652	- / 13.658	- / 12.931	- / 122.134	- / 225.021
Subtotal: Procurement	- / 154.324	- / 189.030	- / 251.160	- / 281.105	- / -	- / 281.105	- / 208.972	- / 267.390	- / 330.839	- / 390.377	- / 4,846.634	- / 6,919.831
Support												
2.1) ILS ⁽²¹⁾	- / 3.323	- / 3.463	- / 4.089	- / 4.117	- / -	- / 4.117	- / 4.210	- / 4.303	- / 4.399	- / 4.446	- / 5.214	- / 37.564
2.2) Other Support ⁽²²⁾	- / 17.160	- / 17.503	- / 18.203	- / 18.567	- / -	- / 18.567	- / 18.938	- / 19.171	- / 19.513	- / 19.924	- / 108.676	- / 257.655
Subtotal: Support	- / 20.483	- / 20.966	- / 22.292	- / 22.684	- / -	- / 22.684	- / 23.148	- / 23.474	- / 23.912	- / 24.370	- / 113.890	- / 295.219
Installation												
Subtotal: Installation	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total												
Total Cost (Procurement + Support + Installation)	174.807	209.996	273.452	303.789	0.000	303.789	232.120	290.864	354.751	414.747	4,960.524	7,215.050

Footnotes:

(19) CE 1.1.1 Unit cost varies based on the series (E/F/G) of aircraft planned for induction. The FYDP projected ramp is necessary to meet the department's Strike Fighter Inventory Management plan

(20) CE 1.2.1 - NRE required in order to generate the necessary ECPs as structural locations within the aircraft are determined to need modifications

(21) CE 2.1 FY2024 increase to support ramp up of Service Life Extension (SLEP)

(22) CE 2.2 FY2024 increase to support ramp up of Service Life Extension (SLEP)

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Exhibit P-40, Budget Line Item Justification: PB 2024 Navy **Date:** March 2023

Appropriation / Budget Activity / Budget Sub Activity: 1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft	P-1 Line Item Number / Title: 0507 / Marine Group 5 UAS Series
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: 0207257N	Other Related Program Elements: 0603128N
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	0.000	1.982	86.116	98.063	0.000	98.063	157.964	193.207	166.395	64.147	1.500	769.374
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	0.000	1.982	86.116	98.063	0.000	98.063	157.964	193.207	166.395	64.147	1.500	769.374
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	0.000	1.982	86.116	98.063	0.000	98.063	157.964	193.207	166.395	64.147	1.500	769.374

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The Marine Air Ground Task Force (MAGTF) Unmanned Aircraft System (UAS) Expeditionary (MUX) Medium Altitude Long Endurance (MALE) addresses capability gaps identified in the October 2016 MUX ICD and associated Requirements Clarification document. MALE, the first MUX Family of Systems (FoS) element, is a land-based Group 5 UAS scheduled to begin operating in theater in FY23. MALE is a land-based UAS that provides direct support to the Marine Littoral Regiment (MLR) in peer-to-peer conflict. It will provide stand-off sensing and Command, Control, Communication, and Computers capabilities, while supporting numerous low-cost stand-in Marine Air-Ground Task Force (MAGTF) assets. It will enhance the MLR's domain awareness and survivability, while broadening its sea-control/sea-denial capabilities.

This program has associated Research, Development Test and Evaluation (RDT&E) USN funding in PE 0207257N.

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2024 Navy **Date:** March 2023

Appropriation / Budget Activity / Budget Sub Activity:
1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft

P-1 Line Item Number / Title:
0507 / Marine Group 5 UAS Series

ID Code (A=Service Ready, B=Not Service Ready): A **Program Elements for Code B Items:** 0207257N **Other Related Program Elements:** 0603128N

Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	1 / Marine Group 5 UAS Series (OSIP 004-22) (Safety, Reliability, Increased Service Life, Improved Mission Capability)				- / 0.000	- / 1.982	- / 86.116	- / 98.063	- / 0.000	- / 98.063
P-40	Total Gross/Weapon System Cost				- / 0.000	- / 1.982	- / 86.116	- / 98.063	- / 0.000	- / 98.063
Exhibits Schedule					FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	1 / Marine Group 5 UAS Series (OSIP 004-22) (Safety, Reliability, Increased Service Life, Improved Mission Capability)				- / 157.964	- / 193.207	- / 166.395	- / 64.147	- / 1.500	- / 769.374
P-40	Total Gross/Weapon System Cost				- / 157.964	- / 193.207	- / 166.395	- / 64.147	- / 1.500	- / 769.374

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

Justification:
This budget request supports the MQ-9A with the integration of modifications associated with Auto Takeoff capability, and Landing Radar Altimeter, Global Positioning System (GPS) Anti-Jam, Detect And Avoid System (DAAS), Electronic Warfare (EW), Marine time Domain Awareness (MDA), Airborne Network Extension (ANE) / SkyTower II with these capabilities to satisfy operational requirements. The GPS Anti-Jam Antenna delivers protection against interference and intentional jamming providing an accurate GPS location and the Auto Takeoff Landing Capability, Radar Altimeter provides a safe autonomous takeoff, and landing capability reduces the accident-prone portion of the mission by reducing operator risk. The USMC MALE program will realize substantial operating and sustainment cost savings by remaining aligned with the USAF configuration.

FY24 funds the modification of six (6) DAAS payloads and six (6) EW Sensors. Additionally, the MQ-9A system will continue to evolve and upgrade its capabilities and to address reliability, maintainability, and safety issues as they arise. Funding may be used to address Diminishing Manufacturing Sources (DMS) and Non-Recurring Engineering (NRE) issues. The required upgrades include, but are not limited to, aircraft, sensors, ground control stations, ground support system retrofit to baseline configurations, and spares for modified components.

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0507 / Marine Group 5 UAS Series	Modification Number / Title: 1 / Marine Group 5 UAS Series (OSIP 004-22)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	0.000	1.982	86.116	98.063	0.000	98.063	157.964	193.207	166.395	64.147	1.500	769.374
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	0.000	1.982	86.116	98.063	0.000	98.063	157.964	193.207	166.395	64.147	1.500	769.374
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	0.000	1.982	86.116	98.063	0.000	98.063	157.964	193.207	166.395	64.147	1.500	769.374

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

OSIP 004-22 funds the modification and integration of the Detect And Avoid System (DAAS), Airborne Network Extension (ANE), and Electronic Warfare (EW) mission systems. Air vehicle modifications will continue as required and consists of but not limited to Radar Altimeter, Radar Altimeter Antenna, cables and assemblies for Auto Takeoff Capability and Landing Capability, Radar Altimeter, GPS Dual Band Anti Jam Antenna, cables and assemblies for GPS Anti-Jam Antenna system.

Additionally, the MALE (MQ-9A) system will continue to evolve as future capabilities are identified and incorporated to address reliability, maintainability, and safety issues as they arise. Funding will be used to support Class 1 Engineering Change Proposals (ECP's) which address Diminishing Manufacturing Sources (DMS) and may include Non-Recurring Engineering (NRE).

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy										Date: March 2023			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0507 / Marine Group 5 UAS Series					Modification Number / Title: 1 / Marine Group 5 UAS Series (OSIP 004-22)			
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: MQ-9A				Modification Type: Safety, Reliability, Increased Service Life, Improved Mission Capability				Related RDT&E PEs:					
Financial Plan <small>(* Indicates the modification is being installed organically and no installation funds are required.)</small>	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
2.1.1) Extended Range -15 to -20 - NonOrganic ⁽¹⁾ <i>Installation 1 of 5</i>	- / -	1 / 1.953	1 / 1.169	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 3.122	
2.1.2) Extended Range -20 to -25 - NonOrganic ⁽²⁾ <i>Installation 2 of 5</i>	- / -	- / -	10 / 14.603	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	10 / 14.603	
2.1.3) Detect And Avoid System (DAAS) - NonOrganic ⁽³⁾ <i>Installation 3 of 5</i>	- / -	- / -	3 / 11.104	6 / 19.584	- / -	6 / 19.584	2 / 6.659	7 / 23.771	2 / 7.328	- / -	- / -	20 / 68.446	
2.1.4) Airborne Network Extension (ANE) / SkyTower II - Organic ⁽¹⁾	- / -	- / -	- / -	- / -	- / -	- / -	7 / 33.600	5 / 24.400	5 / 24.850	3 / 15.171	- / -	20 / 98.021	
2.1.5) Electronic Warfare (EW) Sensor - NonOrganic ⁽⁴⁾ <i>Installation 4 of 5</i>	- / -	- / -	- / -	6 / 45.900	- / -	6 / 45.900	1 / 7.803	3 / 23.877	- / -	- / -	- / -	10 / 77.580	
2.1.6) Maritime Domain Awareness (MDA) - Organic ⁽¹⁾	- / -	- / -	- / -	- / -	- / -	- / -	2 / 41.540	3 / 65.562	3 / 64.827	2 / 41.540	- / -	10 / 213.469	
2.1.7) Ground Control Station (GCS) Intel Com Directive (ICD) 705 Compliant - NonOrganic ⁽⁵⁾ <i>Installation 5 of 5</i>	- / -	- / -	6 / 46.967	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	6 / 46.967	
2.1.8) Proliferated Low Earth Orbit (PLEO) - Organic ⁽¹⁾	- / -	- / -	- / -	- / -	- / -	- / -	8 / 3.640	4 / 4.400	7 / 4.840	1 / 2.930	- / -	20 / 15.810	
2.2.1) B Kits/Non-Recurring - Organic ⁽⁶⁾	- / -	- / -	- / 0.639	- / 14.900	- / -	- / 14.900	- / 26.728	- / 17.867	- / 23.795	- / -	- / -	- / 83.929	
Subtotal: Procurement	- / 0.000	- / 1.953	- / 74.482	- / 80.384	- / -	- / 80.384	- / 119.970	- / 159.877	- / 125.640	- / 59.641	- / 0.000	- / 621.947	
Support													
3.1) Data ⁽⁷⁾	- / -	- / -	- / 0.700	- / 2.000	- / -	- / 2.000	- / 3.250	- / 2.500	- / 3.100	- / -	- / -	- / 11.550	
3.2) Training Equipment ⁽⁸⁾	- / -	- / -	- / 0.920	- / 2.110	- / -	- / 2.110	- / 3.050	- / 2.500	- / 3.600	- / -	- / -	- / 12.180	
3.3) ILS ⁽⁹⁾	- / -	- / -	- / 2.604	- / 3.387	- / -	- / 3.387	- / 5.900	- / 5.100	- / 5.500	- / 1.200	- / -	- / 23.691	
3.4) Other Support ⁽¹⁰⁾	- / -	- / 0.029	- / 6.426	- / 8.182	- / -	- / 8.182	- / 19.094	- / 19.330	- / 25.855	- / 2.106	- / -	- / 81.022	
Subtotal: Support	- / 0.000	- / 0.029	- / 10.650	- / 15.679	- / -	- / 15.679	- / 31.294	- / 29.430	- / 38.055	- / 3.306	- / 0.000	- / 128.443	
Installation													
Installation 1 of 5: Extended Range -15 to -20	- / -	- / -	- / 0.984	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.984	
Installation 2 of 5: Extended Range -20 to -25	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.300	- / 2.700	- / -	- / -	- / -	- / 3.000	
Installation 3 of 5: Detect And Avoid System (DAAS)	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.600	- / 0.900	- / 1.800	- / 1.200	- / 1.500	- / 6.000	
Installation 4 of 5: Electronic Warfare (EW) Sensor	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.800	- / 0.300	- / 0.900	- / -	- / 0.000	- / 3.000	

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0507 / Marine Group 5 UAS Series	Modification Number / Title: 1 / Marine Group 5 UAS Series (OSIP 004-22)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Models of Systems Affected: MQ-9A	Modification Type: Safety, Reliability, Increased Service Life, Improved Mission Capability	Related RDT&E PEs:
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Financial Plan <small>(*) Indicates the modification is being installed organically and no installation funds are required.</small>	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>
Installation 5 of 5: Ground Control Station (GCS) Intel Com Directive (ICD) 705 Compliant	- / -	- / -	- / -	- / 2.000	- / 0.000	- / 2.000	- / 4.000	- / -	- / -	- / -	- / 0.000	- / 6.000
<i>Subtotal: Installation</i>	- / 0.000	- / -	- / 0.984	- / 2.000	- / -	- / 2.000	- / 6.700	- / 3.900	- / 2.700	- / 1.200	- / 1.500	- / 18.984
Total												
Total Cost (Procurement + Support + Installation)	0.000	1.982	86.116	98.063	0.000	98.063	157.964	193.207	166.395	64.147	1.500	769.374

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0507 / Marine Group 5 UAS Series	Modification Number / Title: 1 / Marine Group 5 UAS Series (OSIP 004-22)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Installation 1 of 5: Extended Range -15 to -20

Manufacturer Information

Manufacturer Name: General Atomics	Manufacturer Location: Poway, CA
Administrative Leadtime (in Months): 5	Production Leadtime (in Months): 7

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates		Feb 2023					
Delivery Dates		Sep 2023					

Installation Information

Method of Implementation: Contractor Field Mod Team (CFMT):: Installation Name: Extended Range -15 to -20

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	1 / 0.492	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	1 / 0.492
FY 2023	- / -	- / -	1 / 0.492	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	1 / 0.492
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	2 / 0.984	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	2 / 0.984

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Out	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0507 / Marine Group 5 UAS Series	Modification Number / Title: 1 / Marine Group 5 UAS Series (OSIP 004-22)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Installation 2 of 5: Extended Range -20 to -25

Manufacturer Information

Manufacturer Name: General Atomics	Manufacturer Location: Poway, CA
Administrative Leadtime (in Months): 10	Production Leadtime (in Months): 24

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates		Jul 2023					
Delivery Dates		Jul 2025					

Installation Information

Method of Implementation: Contractor Field Mod Team (CFMT):: Installation Name: Extended Range -20 to -25

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.300	9 / 2.700	- / -	- / -	0 / 0.000	10 / 3.000
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.300	9 / 2.700	- / -	- / -	0 / 0.000	10 / 3.000

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot	
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4			
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	3	3	3	-	-	-	-	-	-	-	-	-	-	-	10
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	2	3	3	-	-	-	-	-	-	-	-	-	-	10

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0507 / Marine Group 5 UAS Series	Modification Number / Title: 1 / Marine Group 5 UAS Series (OSIP 004-22)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Installation 3 of 5: Detect And Avoid System (DAAS)

Manufacturer Information

Manufacturer Name: General Atomics	Manufacturer Location: Poway, CA
Administrative Leadtime (in Months): 10	Production Leadtime (in Months): 24

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates		Jul 2023	Jul 2024	May 2025	May 2026	May 2027	
Delivery Dates		Jul 2025	Jul 2026	May 2027	May 2028	May 2029	

Installation Information

Method of Implementation: [none specified]:: Installation Name: Detect And Avoid System (DAAS)

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.600	1 / 0.300	- / -	- / -	0 / 0.000	3 / 0.900
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.600	4 / 1.200	- / -	0 / 0.000	6 / 1.800
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.600	- / -	0 / 0.000	2 / 0.600
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4 / 1.200	3 / 0.900	7 / 2.100
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.600	2 / 0.600
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.600	3 / 0.900	6 / 1.800	4 / 1.200	5 / 1.500	20 / 6.000

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	1	-	-	2	2	2	2	-	-	-	2	2	5	20
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	1	-	-	2	2	2	2	-	-	-	2	7	20

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0507 / Marine Group 5 UAS Series	Modification Number / Title: 1 / Marine Group 5 UAS Series (OSIP 004-22)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Installation 4 of 5: Electronic Warfare (EW) Sensor

Manufacturer Information

Manufacturer Name: General Atomics	Manufacturer Location: Poway, CA
Administrative Leadtime (in Months): 7	Production Leadtime (in Months): 12

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates			Apr 2024	Apr 2025	Apr 2026		
Delivery Dates			Apr 2025	Apr 2026	Apr 2027		

Installation Information

Method of Implementation: [none specified]:: Installation Name: Electronic Warfare (EW) Sensor

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	6 / 1.800	- / -	- / -	- / -	0 / 0.000	6 / 1.800
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.300	- / -	- / -	0 / 0.000	1 / 0.300
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3 / 0.900	- / -	0 / 0.000	3 / 0.900
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	- / -	- / -	- / -	6 / 1.800	1 / 0.300	3 / 0.900	- / -	0 / 0.000	10 / 3.000

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot	
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4			
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	3	-	-	1	-	-	-	3	-	-	-	-	-	-	-	10
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	3	-	-	1	-	-	-	3	-	-	-	-	-	-	10

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0507 / Marine Group 5 UAS Series	Modification Number / Title: 1 / Marine Group 5 UAS Series (OSIP 004-22)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Installation 5 of 5: Ground Control Station (GCS) Intel Com Directive (ICD) 705 Compliant

Manufacturer Information

Manufacturer Name: General Atomics	Manufacturer Location: Poway, CA
Administrative Leadtime (in Months): 5	Production Leadtime (in Months): 17

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates		Feb 2023					
Delivery Dates		Jul 2024					

Installation Information

Method of Implementation: [none specified]:: Installation Name: Ground Control Station (GCS) Intel Com Directive (ICD) 705 Com

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	2 / 2.000	0 / 0.000	2 / 2.000	4 / 4.000	- / -	- / -	- / -	0 / 0.000	6 / 6.000
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	2 / 2.000	0 / 0.000	2 / 2.000	4 / 4.000	- / -	- / -	- / -	0 / 0.000	6 / 6.000

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	-	-	2	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Out	-	-	-	-	-	-	-	-	-	-	-	-	2	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Footnotes:
 (1) An additional capability is required to fully exploit the extended range capabilities of the MQ-9A air vehicle. Consequently, the external fuel capability has been prioritized and will be procured with FY22 dollars. The propulsion upgrade capability to extend the range of the MQ-9A has been added to the configuration and will be procured with FY23 dollars.

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0507 / Marine Group 5 UAS Series	Modification Number / Title: 1 / Marine Group 5 UAS Series (OSIP 004-22)
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:
<p>(2) Extended Range include multiple configuration mods to meet extended range capabilities. Mods may include but are not limited to additional/expanded fuel tank; engine propeller, fuel in-take/meter; wing mods. Necessary air vehicle mods are dependent upon condition of system level components. Mods are estimates based on flying hours.</p> <p>(3) DAAS provides sense and avoid detection capabilities for the air vehicle. FY24 increase is due to an increase in procurements from three (3) the previous year to now six (6).</p> <p>(4) FY24 initiates Electronic Warfare (EW) B-kits procurements. This CE accounts for three subsystems required to formulate an EW B-kit. These subsystems consist of EW Pod, Smart Sensor, and a Processing Exploitation and Dissemination (PED) workstation.</p> <p>(5) The ICD705 compliant Ground Control Station provides the physical and technical security required to operate the MQ-9 aircraft. These GCS provided secured systems that ensure the required security for the transmission of sensitive data.</p> <p>(6) FY24 increase in cost is associated with the ECP development and verification of Electronic Warfare, Ground Control Station and Common Operating Picture. Verification consists of the acquisition of components, integration, obsolescence management, modification required for ICD-705 compliance and the engineering authentication of the systems and subsystems.</p> <p>(7) FY24 increase in cost is associated with FY24 being the first year of system procurement with publications and manuals supporting Extended Range, and Electronic Warfare and increased DAAS quantity procurement.</p> <p>(8) FY24 increase for training systems is due to the first year procurement for the EW system and training aids are required to maintain proficiency.</p> <p>(9) FY24 increase in cost is associated with FY24 being the first year of system procurement of logistics support element requirements for Electronic Warfare for Ground Support Equipment and Peculiar Support Equipment.</p> <p>(10) FY24 increase in cost is associated with FY24 being the first year of system procurement for EW, and increased DAAS procurement quantity as it pertains to programmatic, engineering, training and technical support.</p>		

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Exhibit P-40, Budget Line Item Justification: PB 2024 Navy **Date:** March 2023

Appropriation / Budget Activity / Budget Sub Activity: 1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft	P-1 Line Item Number / Title: 0513 / AEA Systems
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	464.237	20.221	25.058	24.110	0.000	24.110	19.649	18.652	18.997	19.453	54.400	664.777
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	464.237	20.221	25.058	24.110	0.000	24.110	19.649	18.652	18.997	19.453	54.400	664.777
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	464.237	20.221	25.058	24.110	0.000	24.110	19.649	18.652	18.997	19.453	54.400	664.777

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

This line item funds modifications to Airborne Electronic Attack (AEA) products used on multiple platforms. Modifications budgeted and programmed include: procurement and enhancement of the AN/ALQ-99 Tactical Jamming System (TJS) and Low Band Transmitter Antenna Group (LBT AG) inventory, AN/ALQ-99 TJS upgrades and related sustainability, capability, and viability modifications. AEA will support procurement of new technologies and equipment as needed to combat emerging and evolving electronic warfare technology and systems.

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Exhibit P-40, Budget Line Item Justification: PB 2024 Navy **Date:** March 2023

Appropriation / Budget Activity / Budget Sub Activity:
1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft

P-1 Line Item Number / Title:
0513 / AEA Systems

ID Code (A=Service Ready, B=Not Service Ready): A **Program Elements for Code B Items:** N/A **Other Related Program Elements:** N/A

Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	1 / Airborne Electronic Attack (AEA) Systems (OSIP 007-11) (RELIABILITY / MISSION CAPABILITY)				- / 451.837	- / 20.221	- / 25.058	- / 24.110	- / 0.000	- / 24.110
P-3a	2 / Inactive OSIPS (RELIABILITY / MISSION CAPABILITY)				- / 12.400	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000
P-40	Total Gross/Weapon System Cost				- / 464.237	- / 20.221	- / 25.058	- / 24.110	- / 0.000	- / 24.110

Exhibits Schedule					FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	1 / Airborne Electronic Attack (AEA) Systems (OSIP 007-11) (RELIABILITY / MISSION CAPABILITY)				- / 19.649	- / 18.652	- / 18.997	- / 19.453	- / 54.400	- / 652.377
P-3a	2 / Inactive OSIPS (RELIABILITY / MISSION CAPABILITY)				- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 12.400
P-40	Total Gross/Weapon System Cost				- / 19.649	- / 18.652	- / 18.997	- / 19.453	- / 54.400	- / 664.777

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

Justification:
The Department of the Navy has been tasked with accomplishing the Nation's AEA mission in various theaters of operation over the last few decades. The AEA capability fielded by the Navy on the EA-18G Growler has been a high demand, low density asset. The Marine Corps has transitioned to an organic capability utilizing electronic warfare payloads flown on Marine Corps aircraft. Stable investment in AEA systems will ensure continued availability of AEA capability to meet warfighter demand. Investment in the AN/ALQ-99 TJS will ensure continued system availability until Next Generation Jammer (NGJ) achieves Full Operational Capability across all bands of the Electromagnetic Spectrum (EMS).

AEA System procurements and related efforts are required to combat emerging electronic warfare technology and systems. Investment in AEA System efforts will ensure that sufficient AEA capability is available to meet warfighter requirements.

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0513 / AEA Systems	Modification Number / Title: 1 / Airborne Electronic Attack (AEA) Systems (OSIP 007-11)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	451.837	20.221	25.058	24.110	0.000	24.110	19.649	18.652	18.997	19.453	54.400	652.377
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	451.837	20.221	25.058	24.110	0.000	24.110	19.649	18.652	18.997	19.453	54.400	652.377
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	451.837	20.221	25.058	24.110	0.000	24.110	19.649	18.652	18.997	19.453	54.400	652.377

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

This Operational and Safety Improvement Program covers system modifications required to improve AN/ALQ-99 reliability, maintainability, availability, resolve obsolescence issues, and correct deficiencies found in testing or in the field. Engineering changes are needed to enhance mission capability and integration of evolving Electronic Warfare systems to address increased mission requirements and emerging threats in support of EA-18G aircraft. The out of production transmitter inventory is static and is being stretched due to increasing electronic warfare aircraft numbers and mission requirements. The AN/ALQ-99 TJS consists of six transmitters that are mission configurable depending on target threat. Reconstitution of reclaimed United States Air Force (USAF) EF-111 Band 4 through 8 transmitters to United States Navy (USN) configuration will alleviate significant jammer inventory shortfalls for the EA-18G platform.

B KITS: AN/ALQ-99 TJS hardware procurements include the Low Band Consolidation (LBC), Band 9/10 transmitters, as well as other ALQ-99 TJS transmitter, antenna, and Universal Exciter Upgrade (UEU).

INSTALLATION EQUIPMENT N/R: AN/ALQ-99 TJS obsolescence mitigation efforts, capability, and reliability enhancements require non-recurring engineering (NRE) for AN/ALQ-99 TJS components such as the LBC, Band 9/10 transmitters, as well as other ALQ-99 TJS transmitter, antenna, and UEU.

SUPPORT EQUIPMENT: Introduction of new/modified AN/ALQ-99 pod equipment requires new/modified organizational, intermediate, and depot level support equipment; such as modifications and additions to the AN/ALQ-99 pod test set to support LBT AG and LBC, modifications to the High Power Device Test Set to extend frequency coverage to test Band 9/10 Transmitters, GSU-534/E WRA Centerline Lift Jack, and Enhanced Tactical Pod Tester (ETPT). Additionally, procurements are required to address obsolescence of support equipment; such as ADU-978 TJS Handling Skid Adapter, HLU-465 Beam Adapter Set, and Dielectric Fluid Conditioning Set (DFCS).

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0513 / AEA Systems	Modification Number / Title: 1 / Airborne Electronic Attack (AEA) Systems (OSIP 007-11)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Models of Systems Affected: EA-18G	Modification Type: RELIABILITY / MISSION CAPABILITY	Related RDT&E PEs:
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Financial Plan <small>(*) Indicates the modification is being installed organically and no installation funds are required.</small>	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Procurement												
1.1.1) Transmitters - Organic ^{(*) (1)}	- / -	- / -	73 / 7.177	78 / 12.051	- / -	78 / 12.051	74 / 9.951	8 / 9.167	8 / 9.350	8 / 9.537	19 / 23.445	268 / 80.678
1.1.2) Vertical Polarized (VPOL) Antenna - Organic ^(*)	207 / 9.863	14 / 0.522	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	221 / 10.385
1.1.3) Archived Mods - Organic ^(*)	1,129 / 172.235	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1,129 / 172.235
1.2.1) Installation Equipment N/R - Organic ^{(*) (2)}	- / 83.953	- / 6.125	- / 4.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 94.078
1.2.2) Installation Equipment N/R LBC - Organic ^(*)	- / 57.592	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 57.592
Subtotal: Procurement	- / 323.643	- / 6.647	- / 11.177	- / 12.051	- / -	- / 12.051	- / 9.951	- / 9.167	- / 9.350	- / 9.537	- / 23.445	- / 414.968
Support												
2.1) Engineering Change Orders	- / 8.937	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 8.937
2.2) Data	- / 0.222	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.222
2.3) Support Equipment ⁽³⁾	- / 37.462	- / 1.289	- / 6.324	- / 4.279	- / -	- / 4.279	- / 1.722	- / 1.349	- / 1.346	- / 1.449	- / 4.524	- / 59.744
2.4) Integrated Logistics Support	- / 13.712	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 13.712
2.5) Other Support ⁽⁴⁾	- / 67.861	- / 12.285	- / 7.557	- / 7.780	- / -	- / 7.780	- / 7.976	- / 8.136	- / 8.301	- / 8.467	- / 26.431	- / 154.794
Subtotal: Support	- / 128.194	- / 13.574	- / 13.881	- / 12.059	- / -	- / 12.059	- / 9.698	- / 9.485	- / 9.647	- / 9.916	- / 30.955	- / 237.409
Installation												
Subtotal: Installation	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total												
Total Cost (Procurement + Support + Installation)	451.837	20.221	25.058	24.110	0.000	24.110	19.649	18.652	18.997	19.453	54.400	652.377

Footnotes:

(1) FY 2024 increases due to QTY of Low Band Consolidation (LBC) production (QTY 3 @ \$1.333M/unit in FY23 to QTY 8 @ \$1.101M/unit in FY24). FY 2024 also includes procurement of Band 9/10 transmitters (QTY 70 at a unit cost of ~\$.046M). Yearly transmitter unit cost varies based on type and quantity of transmitter/antenna procured in a given fiscal year. Based on updated readiness requirements, additional LBC, Band 9/10 transmitters as well as other ALQ-99 transmitters, antenna and UEU are being procured from FY 2025 through the FYDP.

(2) FY 2023 non-recurring funding is required to restart the Low Band Consolidation (LBC) production line in order to address current operational readiness shortfalls with the Legacy Band 4 transmitter. LBC transmitter production is budgeted to begin in FY 2024.

(3) FY 2024 Support equipment funding is required for modifications/additions to the ALQ-99 pod test set to support LBC, modifications to the High Power Device Test Set to extend frequency coverage for Band 9/10 transmitters and addressing multiple obsolescence issues with existing ALQ-99 support equipment (such as ADU-978 TJS Handling Skid Adapter, HLU-465 Beam Adapter Set, and Dielectric Fluid Conditioning Set).

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0513 / AEA Systems	Modification Number / Title: 1 / Airborne Electronic Attack (AEA) Systems (OSIP 007-11)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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⁽⁴⁾ FY 2024 Other Support covers all direct program logistics, production engineering support and Subject Matter Experts (SME) from multiple field activities (NAWCAD, NAWCWD, NSWC Crane) required to support Band 9/10 production, LBC production and engineering support for the development/modification of support equipment.

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Exhibit P-3a, Individual Modification: PB 2024 Navy	Date: March 2023
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Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0513 / AEA Systems	Modification Number / Title: 2 / Inactive OSIPS
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ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	12.400	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	12.400
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) <i>(\$ in Millions)</i>	12.400	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	12.400
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	12.400	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	12.400

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Dollars)</i>	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Inactive OSIPs prior year totals.

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Exhibit P-3a, Individual Modification: PB 2024 Navy **Date:** March 2023

Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0513 / AEA Systems	Modification Number / Title: 2 / Inactive OSIPS
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ID Code (A=Service Ready, B=Not Service Ready) : **MDAP/MAIS Code:**

Models of Systems Affected: MULTIPLE PLATFORMS	Modification Type: RELIABILITY / MISSION CAPABILITY	Related RDT&E PEs:
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Financial Plan <small>(*) Indicates the modification is being installed organically and no installation funds are required.</small>	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>
Procurement												
1.1.1) INACTIVE OSIPS - Organic ^(*)	- / 12.400	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 12.400
<i>Subtotal: Procurement</i>	- / 12.400	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 12.400
Installation												
<i>Subtotal: Installation</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total												
Total Cost (Procurement + Support + Installation)	12.400	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	12.400

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Exhibit P-40, Budget Line Item Justification: PB 2024 Navy **Date:** March 2023

Appropriation / Budget Activity / Budget Sub Activity: 1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft	P-1 Line Item Number / Title: 0514 / AV-8 Series
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: 530

Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	1,512.802	14.626	26.657	22.829	0.000	22.829	23.580	11.096	12.027	12.552	-	1,636.169
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	1,512.802	14.626	26.657	22.829	0.000	22.829	23.580	11.096	12.027	12.552	-	1,636.169
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	1,512.802	14.626	26.657	22.829	0.000	22.829	23.580	11.096	12.027	12.552	-	1,636.169

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

This line item funds modifications to T/AV-8B aircraft. The AV-8B is a single engine, single crew member (two crew members for the trainer variant) aircraft capable of vertical/short take-off and landing operations. The AV-8B meets the Marine Corps requirements for a light attack aircraft to provide responsive offensive air power that can operate from ships and austere forward bases in direct support of ground forces. The overall goal of the modifications budgeted in FY 2024 is to continue incorporation of Obsolescence Replacement (OR)/Readiness Management Plan (RMP) systems, electrical and structural changes; inventory sustainment and upgrade efforts to offset obsolescence and attrition; incorporation of LITENING Pod upgrades, to include a forward section upgrade, an Advanced Tactical Data Link (ATDL) and release of associated software upgrades; incorporation of AV-8B F402-RR-408 engine safety and operational changes and crypto-modernization upgrade of a digitally interoperable Link 16 capability and associated software upgrades.

The AV-8B active inventory (February 2023) consists of 3 configurations:

- 6 Two-Seat T/AV-8B Aircraft
- 38 RADAR Remanufacture Aircraft
- 11 RADAR Production Aircraft

Retrofit quantities of each Engineering Change Proposal (ECP) vary by aircraft configuration type & inventory when the change was introduced into production. Retrofit quantities of each ECP also vary depending on whether the ECP applies to the airframe or an individual Weapons Replaceable Assembly. Non-recurring Engineering (NRE) varies from year to year based on complexity of ECPs and upgrades being engineered for implementation in a given year. Publications and Integrated Logistics Support (ILS) also vary from year to year based on complexity of logistics elements and number of publications required to be updated for each individual ECP.

NOTE:

Service Life - 2028.

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Exhibit P-40, Budget Line Item Justification: PB 2024 Navy **Date:** March 2023

Appropriation / Budget Activity / Budget Sub Activity:
1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft

P-1 Line Item Number / Title:
0514 / AV-8 Series

ID Code (A=Service Ready, B=Not Service Ready): A **Program Elements for Code B Items:** N/A **Other Related Program Elements:** N/A

Line Item MDAP/MAIS Code: 530

Exhibits Schedule					Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	1 / AV-8B LITENING POD (OSIP 023-00) (Upgrade)				- / 692.145	- / 7.898	- / 21.534	- / 20.509	- / 0.000	- / 20.509
P-3a	2 / ENGINE LIFE MANAGEMENT PROGRAM (OSIP 002-04) (Upgrade)				- / 70.052	- / 1.873	- / 1.814	- / 0.000	- / 0.000	- / 0.000
P-3a	3 / OBSOLESCENCE REPLACEMENT (OSIP 006-06) (TBD)				- / 233.818	- / 2.835	- / 1.931	- / 2.320	- / 0.000	- / 2.320
P-3a	4 / DIGITAL INTEROPERABILITY (OSIP 014-16) (Upgrade)				- / 30.896	- / 2.020	- / 1.378	- / 0.000	- / 0.000	- / 0.000
P-3a	5 / INACTIVE OSIPS (TBD)				- / 485.891	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000
P-40	Total Gross/Weapon System Cost				- / 1,512.802	- / 14.626	- / 26.657	- / 22.829	- / 0.000	- / 22.829

Exhibits Schedule					FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	1 / AV-8B LITENING POD (OSIP 023-00) (Upgrade)				- / 21.311	- / 8.557	- / 9.452	- / 7.586	- / 0.000	- / 788.992
P-3a	2 / ENGINE LIFE MANAGEMENT PROGRAM (OSIP 002-04) (Upgrade)				- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 73.739
P-3a	3 / OBSOLESCENCE REPLACEMENT (OSIP 006-06) (TBD)				- / 2.269	- / 2.539	- / 2.575	- / 4.966	- / 0.000	- / 253.253
P-3a	4 / DIGITAL INTEROPERABILITY (OSIP 014-16) (Upgrade)				- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 34.294
P-3a	5 / INACTIVE OSIPS (TBD)				- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 485.891
P-40	Total Gross/Weapon System Cost				- / 23.580	- / 11.096	- / 12.027	- / 12.552	- / -	- / 1,636.169

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

Justification:
FY 2024 funding will continue to fund procurement of the LITENING Advanced Tactical Datalink (ATDL), LITENING firmware validation and logistics elements to include training and support equipment, and will continue procurement of the LITENING forward section upgrade. FY 2024 funding will also continue procurement and installation of ECP kits for new and ongoing obsolescence and reliability requirements.

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0514 / AV-8 Series	Modification Number / Title: 1 / AV-8B LITENING POD (OSIP 023-00)

Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total	MDAP/MAIS Code:	
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-		
Gross/Weapon System Cost (<i>\$ in Millions</i>)	692.145	7.898	21.534	20.509	0.000	20.509	21.311	8.557	9.452	7.586	0.000	788.992		
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-		
Net Procurement (P-1) (<i>\$ in Millions</i>)	692.145	7.898	21.534	20.509	0.000	20.509	21.311	8.557	9.452	7.586	0.000	788.992		
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-		
Total Obligation Authority (<i>\$ in Millions</i>)	692.145	7.898	21.534	20.509	0.000	20.509	21.311	8.557	9.452	7.586	0.000	788.992		
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>														
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-		
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-		

Description:

The system integrates and procures an external targeting pod that includes an infrared and low-light television targeting device capable of detecting, classifying, auto-tracking, and designating air-to-surface targets. The system will support first-pass autonomous delivery of conventional, precision guided and accurate munitions to include Laser Maverick, Guided Bomb Unit (GBU)-12, GBU-16, and Joint Direct Attack Munitions. The system will provide targeting capabilities for the AV-8B Fleet of Night Attack and RADAR aircraft through the end of its service life. The AV-8B Program Office is the single management authority, procuring, integrating, and managing the LITENING Pod program on all United States Marine Corps (USMC) (AV-8B/F/A-18) platforms in order to maintain commonality within USMC Tactical Air (TACAIR) for LITENING capabilities. Under this structure, the G4 LITENING pod is being procured and integrated on the AV-8B and F/A-18 platforms via aircraft-specific Operational Flight Programs (OFPs). The G4 upgrade vastly improves combat capabilities through increased coverage, expanded Improvised Explosive Device detection capability, and expanding range of video downlink to support ground units equipped with Remote Operated Video Enhanced Receiver (ROVER) and Video Scout ground stations. Theater Joint Tactical Air Requests are specifically requesting LITENING Datalink capabilities for Intelligence, Surveillance, and Reconnaissance. The upgrade doubles the Forward Looking Infrared resolution, and adds Laser Target Image Processing (LTIP) for enhanced detection and targeting capability; increasing the survivability and effectiveness of ground forces. Further upgrades to the Pod Common USMC OFP, such as COFP V4 and V5, will be integrated in follow-on AV-8B and F/A-18 platform OFPs. Future upgrades are planned to the LITENING Datalink. The Advanced Tactical Datalink (ATDL), in conjunction with COFP V4, will permit collaborative and networked payloads to communicate with each other and determine appropriate action against multiple targets simultaneously. It will enable usage of secure, nonproprietary encrypted data waveforms for information exchange in both air-to-air and air-to-ground environments among an increasing number of contributors, providing the ability to link to ground forces in a digital interoperable, robust, and flexible network architecture. Support equipment will include portable power units, trouble shooting support equipment and video viewing devices. The associated V4 software upgrade will integrate tracking Algorithm updates providing more reliable tracking of moving targets, improvements to the passive ranging, improvements to Pod focus and mode selection process, and image overlay mode. The G4 to SE Pod Forward Section Upgrade will upgrade LITENING Pod forward sections component with a Forward-Looking Infra-Red (FLIR) improvement that will mitigate emergent threats.

FY24 continues procurements of ATDL, and associated firmware validation and logistics elements to include training and support equipment, and continues procurement of the Gen 4 to SE forward section upgrades. All LITENING modifications, software/firmware validation, and associated logistics elements support both USMC TACAIR Expeditionary platforms that are currently supporting Overseas Contingency Operations (OCO) combat operations, and all Commandant of the Marine Corps directed pre-deployment training requirements. Funding supports mitigations for parts obsolescence in the LITENING pod and associated training and support equipment. Funds are used to manage, process, and incorporate LITENING upgrades and implement changes to sustain and improve the digital interoperability systems readiness including safety, mission availability, system employment, and component reliability, maintainability, and obsolescence conditions as these emerging deficiencies arise and require modification. This funding will ensure that software is upgraded and integrated, and logistically supported to ensure the LITENING capabilities are integrated with aircraft OFPs.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: The LITENING Targeting Pod is a non-developmental item. FY24 baseline funding continues procurement of ATDLs and Gen 4 to SE forward section upgrades, performs software/firmware validation and associated logistics elements to include publications, training equipment and support equipment. The LITENING pod will be in service past the out of service date of the AV-8B, as the Expeditionary USMC LITENING pod will remain in service and require ongoing upgrades to support its use on the USMC F/A-18 platform through its service life.

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Exhibit P-3a, Individual Modification: PB 2024 Navy **Date:** March 2023

Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0514 / AV-8 Series	Modification Number / Title: 1 / AV-8B LITENING POD (OSIP 023-00)
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ID Code (A=Service Ready, B=Not Service Ready) : **MDAP/MAIS Code:**

Models of Systems Affected: AV-8B Night Attack & Radar/Reman **Modification Type:** Upgrade **Related RDT&E PEs:**

Financial Plan <small>(*) Indicates the modification is being installed organically and no installation funds are required.</small>	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Procurement												
2.1.1) G4 to SE Pod Forward Section Upgrade - Organic ^(*) (1)	- / -	- / -	11 / 3.054	4 / 1.072	- / -	4 / 1.072	19 / 5.185	16 / 4.479	21 / 5.568	25 / 6.779	- / -	96 / 26.137
2.1.2) Common OFF V4 - Organic ^(*)	- / 24.431	- / 2.762	- / 0.659	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 27.852
2.1.3) Advanced Tactical Datalink (ATDL) WRA - Organic ^(*) (2)	10 / 4.143	6 / 2.666	36 / 15.590	35 / 15.460	- / -	35 / 15.460	25 / 11.075	- / -	- / -	- / -	- / -	112 / 48.934
2.1.4) Common OFF V5 - LITENING Digital Port - Organic ^(*)	- / -	- / -	- / -	- / 1.575	- / -	- / 1.575	- / 2.591	- / 1.232	- / 0.989	- / -	- / -	- / 6.387
2.1.5) Archived ECPs - Organic ^(*)	318 / 486.577	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	318 / 486.577
2.2.1) Installation Equipment N/R - Organic ^(*)	- / 71.671	- / 0.985	- / 1.005	- / 1.175	- / -	- / 1.175	- / 1.198	- / 1.559	- / 1.587	- / -	- / -	- / 79.180
Subtotal: Procurement	- / 586.822	- / 6.413	- / 20.308	- / 19.282	- / -	- / 19.282	- / 20.049	- / 7.270	- / 8.144	- / 6.779	- / 0.000	- / 675.067
Support												
3.1) Engineering Change Orders	- / 1.748	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.748
3.2) Data	- / 1.837	- / 0.222	- / 0.055	- / 0.056	- / -	- / 0.056	- / 0.057	- / 0.058	- / 0.058	- / -	- / -	- / 2.343
3.3) Training Equipment	- / 28.048	- / 0.503	- / 0.364	- / 0.348	- / -	- / 0.348	- / 0.365	- / 0.372	- / 0.380	- / -	- / -	- / 30.380
3.4) Support Equipment	111 / 7.855	- / -	- / 0.089	- / 0.091	- / -	- / 0.091	- / 0.093	- / 0.095	- / 0.095	- / 0.097	- / -	111 / 8.415
3.5) ILS	- / 4.504	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 4.504
3.6) Other Support	- / 61.331	- / 0.760	- / 0.718	- / 0.732	- / -	- / 0.732	- / 0.747	- / 0.762	- / 0.775	- / 0.710	- / -	- / 66.535
Subtotal: Support	- / 105.323	- / 1.485	- / 1.226	- / 1.227	- / -	- / 1.227	- / 1.262	- / 1.287	- / 1.308	- / 0.807	- / 0.000	- / 113.925
Installation												
Subtotal: Installation	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total												
Total Cost (Procurement + Support + Installation)	692.145	7.898	21.534	20.509	0.000	20.509	21.311	8.557	9.452	7.586	0.000	788.992

Footnotes:
 (1) G4 to SE Pod Forward Section Upgrade: Total quantity of 96 LITENING Pods used by AV-8B and F/A-18 platforms will receive upgrade.
 (2) Advanced Tactical Datalink (ATDL) WRA: ATDL capability is required to use secure, nonproprietary encrypted data waveforms for information exchange in both air-to-air and air-to-ground environments among an increasing number of contributors, providing the ability to link to ground forces in a digital interoperable, robust, and flexible network architecture.

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0514 / AV-8 Series	Modification Number / Title: 2 / ENGINE LIFE MANAGEMENT PROGRAM (OSIP 002-04)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	70.052	1.873	1.814	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	73.739
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	70.052	1.873	1.814	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	73.739
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	70.052	1.873	1.814	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	73.739

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The AV-8B is a single engine aircraft with unique capabilities. The Vertical/Short Take-off Landing environment is very unforgiving and allows no tolerance for engine problems. The Engine Life Management Program (ELMP) is a comprehensive program to increase safety of flight and operational readiness of the AV-8B F402-RR-408 Engine. Funding provided is to incorporate Engineering Change Proposals (ECPs) to increase safety of flight and operational readiness of the F-402-RR-408 Engine and accessories.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

The Front ECS Filter is the final scheduled ECP to the F-402 engine. Upon completion of this ECP, this OSIP will be retired.

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Exhibit P-3a, Individual Modification: PB 2024 Navy										Date: March 2023			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0514 / AV-8 Series					Modification Number / Title: 2 / ENGINE LIFE MANAGEMENT PROGRAM (OSIP 002-04)			
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: AV-8B Night Attack & Radar/Reman				Modification Type: Upgrade				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
<i>Modification Item 1 of 1:</i> ENGINE LIFE MANAGEMENT PROGRAM (OSIP 002-04)													
A Kits													
Recurring													
1.1.1) Front ECS Filter - Organic	- / -	42 / 0.504	19 / 0.345	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	61 / 0.849	
1.1.2) A Kits Recurring - Archived ECPs - Organic	495 / 14.787	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	495 / 14.787	
<i>Subtotal: Recurring</i>	- / 14.787	- / 0.504	- / 0.345	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 15.636	
Non-Recurring													
1.2.1) Installation Kits N/R - Organic	- / 0.104	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.104	
<i>Subtotal: Non-Recurring</i>	- / 0.104	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 0.104	
B Kits													
Non-Recurring													
2.1.1) Installation Equipment N/R - Organic	- / 0.400	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.400	
<i>Subtotal: Non-Recurring</i>	- / 0.400	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 0.400	
<i>Subtotal: ENGINE LIFE MANAGEMENT PROGRAM (OSIP 002-04)</i>	495 / 15.291	42 / 0.504	19 / 0.345	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	556 / 16.140	
<i>Subtotal: Procurement, All Modification Items</i>	- / 15.291	- / 0.504	- / 0.345	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 16.140	
Support (All Modification Items)													
3.2) Data	- / 0.100	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.100	
3.3) Support Equipment	- / 19.080	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 19.080	
3.4) ILS	- / 25.305	- / 0.938	- / 0.621	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 26.864	
3.5) Other Support	- / 9.576	- / 0.431	- / 0.848	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 10.855	
3.7) Archived Support Costs	- / 0.700	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.700	
<i>Subtotal: Support</i>	- / 54.761	- / 1.369	- / 1.469	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 57.599	
Installation													
<i>Subtotal: Installation</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
Total													
Total Cost (Procurement + Support + Installation)	70.052	1.873	1.814	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	73.739	

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0514 / AV-8 Series	Modification Number / Title: 2 / ENGINE LIFE MANAGEMENT PROGRAM (OSIP 002-04)
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:
Modification Item 1 of 1: ENGINE LIFE MANAGEMENT PROGRAM (OSIP 002-04)		

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0514 / AV-8 Series	Modification Number / Title: 3 / OBSOLESCENCE REPLACEMENT (OSIP 006-06)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	233.818	2.835	1.931	2.320	0.000	2.320	2.269	2.539	2.575	4.966	0.000	253.253
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	233.818	2.835	1.931	2.320	0.000	2.320	2.269	2.539	2.575	4.966	0.000	253.253
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	233.818	2.835	1.931	2.320	0.000	2.320	2.269	2.539	2.575	4.966	0.000	253.253

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Obsolescence Replacement provides for maintaining the reliability of the AV-8B weapons system until its projected end of service, which is now 2028 or until replaced by short take-off and vertical landing (STOVL) operations F-35B. This requires the airframe and integrated systems to exceed planned service life and requires both systems modifications and obsolescence solutions. Funds will be utilized to procure kits and kit components, incorporate Engineering Change Proposals (ECPs) and implement changes to sustain and improve AV-8B weapons system reliability including safety, mission availability, structural integrity, air-to-ground and air-to-air weapon system employment, stores expansion, and component (avionics/systems) reliability, maintainability, and obsolescence conditions, including peculiar support equipment. This program may be required to provide emergent, timely remedial action for any aircraft system, component or structure. Depot level modification installations will be planned and programmed concurrent with Planned Maintenance Interval (PMI) scheduled depot overhaul events to minimize aircraft out-of-service periods, unless safety or aircraft availability require stand-alone installations, or depot lack of capacity requires contracted modification installations.

With the end of service life currently being 2028, OSIP 06-06 Obsolescence Replacement continues to focus on those ECPs that maintain the readiness of the AV-8B weapons system with consideration for cost and schedule. Determination of ECP kit quantities is based off of fleet requirements as outlined in the A-II as well as information from the TYCOM which reflects the squadron transition plan for the AV-8B fleet.

Support costs required for Obsolescence ECPs do not correlate significantly with the quantity or unit cost of kits procured.

In FY24 non-recurring engineering and integrated logistic support (ILS) work continues for ECPs, procurements and installations for new and ongoing obsolescence and reliability requirements. Key efforts include ECPs that address safety, integrity, obsolescence and reliability issues. Other efforts include obsolescence mitigation ECPs, the integration and logistics elements required for use of Common Avionics Procured KY-58M obsolescence replacement and data/ILS updates for ECPs. Support equipment upgrade ECPs are included. Various kit procurements and installations will continue throughout the Future Years Defense Plan. NRE will fluctuate due to mix and complexity of ECPs being written and verified in each year. All ECPs do not require the same level of NRE.

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Exhibit P-3a, Individual Modification: PB 2024 Navy										Date: March 2023			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0514 / AV-8 Series					Modification Number / Title: 3 / OBSOLESCENCE REPLACEMENT (OSIP 006-06)			
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: [No Model Specified]				Modification Type: TBD				Related RDT&E PEs:					
Financial Plan <small>(*) Indicates the modification is being installed organically and no installation funds are required.</small>	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total	
	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	
Procurement													
1.1.1) ECP-TBD RDC FPGA Obsolescence Upgrade - Organic ^(*)	- / -	- / -	68 / 0.204	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	68 / 0.204	
1.1.2) ECP-TBD DC Emergency Bus - NonOrganic Installation 1 of 1	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.350	1 / 0.357	3 / 1.092	4 / 1.486	- / -	9 / 3.285	
1.1.3) A Kits/Recurring - ARCHIVED ECPs - Organic ^(*)	177 / 66.869	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	177 / 66.869	
1.2.1) Installation Kits N/R - Organic ^(*)	- / 23.896	- / -	- / 0.450	- / 0.741	- / -	- / 0.741	- / 0.488	- / -	- / -	- / -	- / -	- / 25.575	
2.1.1) Radome Replacement - Organic ^(*)	- / -	- / -	3 / 0.268	3 / 0.273	- / -	3 / 0.273	3 / 0.279	3 / 0.284	3 / 0.290	3 / 0.296	- / -	18 / 1.690	
2.1.2) B Kits Recurring - ARCHIVED ECPs - Organic ^(*)	170 / 36.558	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	170 / 36.558	
2.2.1) Installation Equipment N/R - Organic ^(*)	- / 29.587	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 29.587	
Subtotal: Procurement	- / 156.910	- / -	- / 0.922	- / 1.014	- / -	- / 1.014	- / 1.117	- / 0.641	- / 1.382	- / 1.782	- / 0.000	- / 163.768	
Support													
3.1) Data	- / 1.973	- / 0.181	- / 0.195	- / 0.110	- / -	- / 0.110	- / 0.110	- / 0.100	- / -	- / -	- / -	- / 2.669	
3.2) Training Equipment	- / 1.127	- / 0.033	- / 0.034	- / -	- / -	- / -	- / -	- / 0.467	- / -	- / -	- / -	- / 1.661	
3.3) Support Equipment	- / 12.228	- / 0.674	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 12.902	
3.4) ILS	- / 6.681	- / 0.262	- / 0.069	- / 0.115	- / -	- / 0.115	- / 0.081	- / -	- / -	- / -	- / -	- / 7.208	
3.5) Other Support	- / 54.899	- / 1.685	- / 0.711	- / 1.081	- / -	- / 1.081	- / 0.961	- / 0.981	- / 0.836	- / 0.635	- / -	- / 61.789	
Subtotal: Support	- / 76.908	- / 2.835	- / 1.009	- / 1.306	- / -	- / 1.306	- / 1.152	- / 1.548	- / 0.836	- / 0.635	- / 0.000	- / 86.229	
Installation													
Installation 1 of 1: GRP: OBSOLESCENCE REPLACEMENT (OSIP 006-06)	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.350	- / 0.357	- / 2.549	- / 0.000	- / 3.256	
Subtotal: Installation	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.350	- / 0.357	- / 2.549	- / 0.000	- / 3.256	
Total													
Total Cost (Procurement + Support + Installation)	233.818	2.835	1.931	2.320	0.000	2.320	2.269	2.539	2.575	4.966	0.000	253.253	

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0514 / AV-8 Series	Modification Number / Title: 3 / OBSOLESCENCE REPLACEMENT (OSIP 006-06)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Installation 1 of 1: GRP: OBSOLESCENCE REPLACEMENT (OSIP 006-06)

Manufacturer Information

Manufacturer Name: Various	Manufacturer Location: Various
Administrative Leadtime (in Months): 10	Production Leadtime (in Months): 6

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates							
Delivery Dates							

Installation Information

Method of Implementation: Safety:: Installation Name: OBSOLESCENCE REPLACEMENT (OSIP 006-06)

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.350	- / -	- / -	0 / 0.000	1 / 0.350
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.357	- / -	0 / 0.000	1 / 0.357
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3 / 1.092	0 / 0.000	3 / 1.092
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4 / 1.457	0 / 0.000	4 / 1.457
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.350	1 / 0.357	7 / 2.549	0 / 0.000	9 / 3.256

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	1	-	-	-	3	2	2	-	-	-
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	1	-	-	-	3	2	2	-	-

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0514 / AV-8 Series	Modification Number / Title: 4 / DIGITAL INTEROPERABILITY (OSIP 014-16)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	30.896	2.020	1.378	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	34.294
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	30.896	2.020	1.378	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	34.294
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	30.896	2.020	1.378	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	34.294

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The AV-8B is required to be digitally interoperable with other U.S. and Allied platforms via MIL-STD-6016 (Link 16) waveform. Airborne tactical Datalink messaging will be enabled via Link 16 waveform, providing the ability for the AV-8B to provide Precise Participant Location and Identification (PPLI), send and receive targeting information, view the common air/surface picture, and view Link surveillance tracks. This tactical data communication between the AV-8B, ground units, and joint assets will provide increased interoperability; improved safety/situational awareness/de-confliction, reduced kill timelines, and digital interoperability. Link 16 A and B kits were incorporated into the aircraft via ECP. ECPs to include the Auxiliary Communications Navigation Identification Panel (ACNIP), Interference Blanker Unit (IBU) and the Mission Systems Computer (MSC) were required to be installed prior to or with Link 16 in order to utilize the capability, as will the APX-123 ECP, to be procured by PMA213. All ECPs will require NRE and logistics support elements to include tech data/pubs, ILS, training equipment/upgrade, support equipment procurement/modification and other support. This OSIP will also be used to perform efforts to address certifications and spectrum assignments of these systems, as well as parts obsolescence. This OSIP will fund ECPs to the STT (Link 16 B-kit) to provide upgrades to the STT that will provide waveform performance improvements, for improved performance in contested environments, and that will upgrade the STT to be capable of Concurrent Multi-Netting (CMN) with Concurrent Contention Receive (CCR), bringing to the STT the ability to receive multiple Link 16 messages within different or same Link 16 nets respectively, in the same time slots.

FY23 will complete the STT upgrade ECP for waveform performance improvements and the ECP for CMN/CCR Upgrade, and will address logistics elements for the ECPs that will incorporate the Link 16 capability upgrade. As the Link 16 functionality is upgraded by the H7.0 software, this OSIP supports the validation and configuration management of the Link 16 and aircraft OFP software as impacted by Link 16. Technology upgrades at COTS vendor drives software changes to Link 16, which will be integrated via H7.0. Funds will be utilized to manage, process, and incorporate digital interoperability ECPs and implement changes to sustain and improve the digital interoperability systems readiness including safety, mission availability, system employment, and component reliability, maintainability, and obsolescence conditions as these emerging deficiencies arise and require modification. This funding will ensure that software is upgraded and integrated to ensure the LINK 16 capabilities are integrated with aircraft OFPs.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: Upgrades to the STT were completed in FY23 to enhance communication in contested environments and enable the STT to be capable of CMN/CCR. H7.0 trainer upgrades to incorporate upgraded Link 16 capability also completed in FY23. This OSIP will be retired in FY24 when STT and Link 16 upgrades are complete.

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Exhibit P-3a, Individual Modification: PB 2024 Navy										Date: March 2023			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0514 / AV-8 Series					Modification Number / Title: 4 / DIGITAL INTEROPERABILITY (OSIP 014-16)			
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: AV-8B Night Attack, Day Attack Upgrade, Radar/Reman & TAV-8B				Modification Type: Upgrade				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
<i>Modification Item 1 of 1:</i> DIGITAL INTEROPERABILITY (OSIP 014-16)													
A Kits													
Recurring													
1.1.1) ECP-PMA257-2020-0008 STT Re-Mounting - Organic	68 / 0.651	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	68 / 0.651	
1.1.2) A Kits Recurring - Archived ECPs - Organic	301 / 5.431	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	301 / 5.431	
<i>Subtotal: Recurring</i>	- / 6.082	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 6.082	
Non-Recurring													
1.2.1) Installation Kits N/R - Organic	- / 4.011	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 4.011	
<i>Subtotal: Non-Recurring</i>	- / 4.011	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 4.011	
B Kits													
Recurring													
2.1.1) ECP-TBD Link 16 CMN/CCR Upgrade - Organic	- / -	- / -	48 / 0.624	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	48 / 0.624	
2.1.2) ECP-PMA257-2021-0002 STT Upgrades - Organic	28 / 1.596	20 / 1.160	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	48 / 2.756	
2.1.3) B Kits Recurring - Archived ECPs - Organic	68 / 1.088	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	68 / 1.088	
<i>Subtotal: Recurring</i>	- / 2.684	- / 1.160	- / 0.624	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 4.468	
Non-Recurring													
2.2.1) Installation Equipment N/R - Organic	- / -	- / -	- / 0.240	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.240	
2.2.2) B Kits NonRecurring - Archived ECPs - Organic	- / 0.100	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.100	
<i>Subtotal: Non-Recurring</i>	- / 0.100	- / -	- / 0.240	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 0.340	
<i>Subtotal: DIGITAL INTEROPERABILITY (OSIP 014-16)</i>	465 / 12.877	20 / 1.160	48 / 0.864	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	533 / 14.901	
<i>Subtotal: Procurement, All Modification Items</i>	- / 12.877	- / 1.160	- / 0.864	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 14.901	
Support (All Modification Items)													
3.1) Data	- / 0.413	- / 0.298	- / 0.105	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.816	
3.2) Training Equipment	- / 9.039	- / 0.277	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 9.316	
3.3) Support Equipment	- / 1.106	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.106	
3.4) ILS	- / 3.608	- / 0.147	- / 0.277	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 4.032	
3.5) Other Support	- / 3.853	- / 0.138	- / 0.132	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 4.123	

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0514 / AV-8 Series	Modification Number / Title: 4 / DIGITAL INTEROPERABILITY (OSIP 014-16)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Models of Systems Affected: AV-8B Night Attack, Day Attack Upgrade, Radar/Reman & TAV-8B	Modification Type: Upgrade	Related RDT&E PEs:
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Financial Plan	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
<i>Subtotal: Support</i>	- / 18.019	- / 0.860	- / 0.514	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 19.393
Installation												
<i>Subtotal: Installation</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total												
Total Cost (Procurement + Support + Installation)	30.896	2.020	1.378	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	34.294

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0514 / AV-8 Series	Modification Number / Title: 4 / DIGITAL INTEROPERABILITY (OSIP 014-16)
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:
Modification Item 1 of 1: DIGITAL INTEROPERABILITY (OSIP 014-16)		

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Exhibit P-3a, Individual Modification: PB 2024 Navy	Date: March 2023
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Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0514 / AV-8 Series	Modification Number / Title: 5 / INACTIVE OSIPS
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ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	485.891	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	485.891
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	485.891	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	485.891
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	485.891	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	485.891

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Inactive OSIPs prior year totals.

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Exhibit P-3a, Individual Modification: PB 2024 Navy										Date: March 2023		
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0514 / AV-8 Series						Modification Number / Title: 5 / INACTIVE OSIPS		
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:					
Models of Systems Affected: [No Model Specified]				Modification Type: TBD				Related RDT&E PEs:				
Financial Plan <small>(*) Indicates the modification is being installed organically and no installation funds are required.</small>	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>
Procurement												
1.1.1) Inactive Osips - Organic ^(*)	- / 485.891	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 485.891
<i>Subtotal: Procurement</i>	- / 485.891	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 485.891
Installation												
<i>Subtotal: Installation</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total												
Total Cost (Procurement + Support + Installation)	485.891	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	485.891

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Exhibit P-40, Budget Line Item Justification: PB 2024 Navy **Date:** March 2023

Appropriation / Budget Activity / Budget Sub Activity: 1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft	P-1 Line Item Number / Title: 0515 / Infrared Search and Track (IRST)
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	97.426	120.377	121.039	179.193	0.000	179.193	172.818	153.095	157.116	42.501	30.918	1,074.483
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	97.426	120.377	121.039	179.193	0.000	179.193	172.818	153.095	157.116	42.501	30.918	1,074.483
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	97.426	120.377	121.039	179.193	0.000	179.193	172.818	153.095	157.116	42.501	30.918	1,074.483

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

LI 0515 was established in FY2021 in order to provide greater transparency of Infrared Search and Track (IRST) modernization efforts. OSIP 04-14 can be found in LI-0525 for FY20 and prior. FY21 and out resides in LI-0515.

This line item funds modifications to the F/A-18 E/F aircraft.

The F/A-18E/F can be missionized through selected use of external equipment to accomplish specific fighter or attack missions. This commonality provides the Operational Commander more flexibility in employing tactical aircraft in a dynamic scenario. The Infrared Search and Track (IRST) system is a long-wave infrared sensor that provides a passive, out-of-band, alternate fire control system capable of detecting, tracking and engaging airborne targets, at long range, in a heavy electronic attack or radar-denied environment. IRST Block II is the primary out-of-band fire-control system for the F/A-18E/F, critical to organic passive air-to-air kill-chains required to compete with peer adversaries.

Current aircraft inventory and Flight hours flown as of 09 February 2023:

F/A-18E - 317 (307 Active, 10 Reserve): service life 6,000 hours (current); 10,000 hours (extended); average service life remaining 2,426 (current-all Non-SLM inducted); 6,388 (extended-Block II aircraft only)

F/A-18F - 248 (246 Active, 2 Reserve): service life 6,000 hours (current); 10,000 hours (extended); average service life remaining 1,713 (current-all Non-SLM inducted); 5,513 (extended-Block II aircraft only)

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Exhibit P-40, Budget Line Item Justification: PB 2024 Navy **Date:** March 2023

Appropriation / Budget Activity / Budget Sub Activity:
1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft

P-1 Line Item Number / Title:
0515 / Infrared Search and Track (IRST)

ID Code (A=Service Ready, B=Not Service Ready): A **Program Elements for Code B Items:** N/A **Other Related Program Elements:** N/A

Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	1 / Infrared Search and Track (IRST) (04-14) (CAPABILITY IMPROVEMENTS)				- / 97.426	- / 120.377	- / 121.039	- / 179.193	- / 0.000	- / 179.193
P-40	Total Gross/Weapon System Cost				- / 97.426	- / 120.377	- / 121.039	- / 179.193	- / 0.000	- / 179.193
Exhibits Schedule					FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	1 / Infrared Search and Track (IRST) (04-14) (CAPABILITY IMPROVEMENTS)				- / 172.818	- / 153.095	- / 157.116	- / 42.501	- / 30.918	- / 1,074.483
P-40	Total Gross/Weapon System Cost				- / 172.818	- / 153.095	- / 157.116	- / 42.501	- / 30.918	- / 1,074.483

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

Justification:
The overall goal of the modifications budgeted in FY 2024 is to implement IRST. OSIP 04-14 can be found in LI-0525 for FY20 and prior. FY21 and out resides in LI-0515.

OSIP 04-14 Infrared Search and Track (IRST) provides the F/A-18E/F (Lot 26 and up) with an Alternative Fire Control System in a high electronic attack/radar denied environment.

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0515 / Infrared Search and Track (IRST)	Modification Number / Title: 1 / Infrared Search and Track (IRST) (04-14)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	97.426	120.377	121.039	179.193	0.000	179.193	172.818	153.095	157.116	42.501	30.918	1,074.483
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	97.426	120.377	121.039	179.193	0.000	179.193	172.818	153.095	157.116	42.501	30.918	1,074.483
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	97.426	120.377	121.039	179.193	0.000	179.193	172.818	153.095	157.116	42.501	30.918	1,074.483

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The AN/ASG-34A(V)1 F/A-18E/F Infrared Search and Track (IRST) system is a long-wave infrared sensor that provides a passive, out-of-band, alternate fire control system capable of detecting, tracking and engaging airborne targets, at long range, in a heavy electronic attack or radar-denied environment. IRST Block II is the primary out-of-band fire-control system for the F/A-18E/F, critical to organic passive air-to-air kill-chains required to compete with peer adversaries. Enables F/A-18E/F lethality by providing a passive means to detect, track, and target aircraft in highly contested environments in support of the objectives outlined in the National Defense Strategy. Enhances survivability by providing a fire-control solution without the need to radiate in the RF spectrum. The IRST system can autonomously, or in combination with other sensors, support the guidance of beyond-visual-range missiles including AIM-120C/D and AIM-9X Block II. The F/A-18E/F IRST system is an evolutionary Navy acquisition program with Block I and Block II capabilities. The Block II Engineering Change Proposal (ECP) includes modifications and incorporation including retrofit and forward fit as well as all integrated logistics support activities to include special tooling, support equipment, production test equipment, Intermediate Level maintenance stand-up, reliability, maintainability, obsolescence and reliability growth activities in support of system Block II modification. USN is committed to further development of this component of the passive kill chain.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

F/A-18E/F Block II IRST is an ECP to the Block I system employing an incremental approach to development and integration. The F/A-18E/F IRST Block II Pre-Development IPR-1 was conducted in October 2017 and the Block II ECP achieved Milestone C on 4 December 2018. Based on lead times required for some hardware components and urgency of need, development is being executed incrementally with some concurrency with production activities. The concurrency risk was accepted based on proven technology elements, high confidence in design stability, and a planned demonstration of readiness for production at rate. The incremental approach to development presently underway and planned for completion in FY22 mitigates concurrency risk by informing a timely, clear and executable path to design validation. Data from the incremental development continue to support acceptance of concurrency risk. Flight-testing of the new critical technology began in 2019 with Block I AV6+ systems (an enhanced Block I pod modified to run Block II SW algorithms) conducting a successful live fire and fleet demonstration of the enhanced Block I technology. As of the end of February 2020, 18 of 18 Block I LRIP units have been delivered and converted to the AV6+ configuration to support tactics, techniques, and procedures development; aircrew and maintainer training; and extended fleet demonstrations of IRST. On February 2021, the enhanced Block I completed a highly successful combat deployment with CVW-17 to CENTCOM AOR. Further development of the Block II hardware continued in parallel with the extended fleet demo with flight testing beginning in November 2019 on a Block II capital asset and continuing in March 2020 with prototype sensors which contain all critical HW elements to evaluate Block II performance. The prototype systems are fully integrated with the aircraft and contain all SW elements needed to deliver Capability Development Document (CDD) performance. Analysis of Multi-plane testing of the prototype systems has shown considerable margin to CDD Key Performance Parameters. The final hardware configuration contains enhancements needed for ease of production and maintenance. F/A-18E/F IRST Block II will now reach IOC in Q2 FY2024. This returns the program to the original planned IOC date prior to the attempt to accelerate IRST Block II fielding. An improved contracting strategy is being executed and the program schedule has been refined in line with the new Acquisition Program Baseline that has been implemented in FY22. This will bring critical out-of-band detection and weapon-quality-track capability against advanced air threats.

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0515 / Infrared Search and Track (IRST)	Modification Number / Title: 1 / Infrared Search and Track (IRST) (04-14)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Models of Systems Affected: F/A-18 E/F	Modification Type: CAPABILITY IMPROVEMENTS	Related RDT&E PEs:
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Financial Plan <small>(*) Indicates the modification is being installed organically and no installation funds are required.</small>	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Procurement												
2.1.1) IRST B-kits (Block II) - Organic ^{(*) (1)}	9 / 55.490	10 / 61.500	10 / 53.859	16 / 85.571	- / -	16 / 85.571	28 / 133.276	28 / 134.439	28 / 138.692	7 / 35.366	2 / 30.918	138 / 729.111
2.1.2) IRST B-Kits (Block I to Block II) - Organic ^{(*) (2)}	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	12 / 10.084	6 / 4.745	- / -	18 / 14.829
2.2.1) Installation Equipment N/R - Organic ^{(*) (1)}	- / 13.596	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 13.596
2.2.2) Special Test Equipment - Organic ^{(*) (3)}	- / 0.500	- / 12.204	- / 2.230	- / 2.152	- / -	- / 2.152	- / -	- / -	- / -	- / -	- / -	- / 17.086
2.2.3) Critical Software Modernization - Organic ^{(*) (4)}	- / -	- / -	- / 11.174	- / 19.149	- / -	- / 19.149	- / 19.520	- / 19.603	- / -	- / -	- / -	- / 39.446
Subtotal: Procurement	- / 69.586	- / 73.704	- / 67.263	- / 96.872	- / -	- / 96.872	- / 142.796	- / 144.042	- / 148.776	- / 40.111	- / 30.918	- / 814.068
Support												
3.1) Data ⁽⁵⁾	- / 0.073	- / 0.797	- / 0.813	- / 2.384	- / -	- / 2.384	- / 0.752	- / 0.722	- / 0.707	- / -	- / -	- / 6.248
3.2) Training Equipment	- / 3.400	- / 0.588	- / 0.352	- / 0.410	- / -	- / 0.410	- / -	- / -	- / -	- / -	- / -	- / 4.750
3.3) Support Equipment ⁽⁶⁾	- / 15.442	- / 36.129	- / 43.270	- / 69.970	- / -	- / 69.970	- / 20.975	- / -	- / -	- / -	- / -	- / 185.786
3.4) ILS	- / 2.147	- / 2.245	- / 2.289	- / 2.364	- / -	- / 2.364	- / 0.959	- / 0.848	- / -	- / -	- / -	- / 10.852
3.5) Other Support	- / 6.778	- / 6.914	- / 7.052	- / 7.193	- / -	- / 7.193	- / 7.336	- / 7.483	- / 7.633	- / 2.390	- / -	- / 52.779
Subtotal: Support	- / 27.840	- / 46.673	- / 53.776	- / 82.321	- / -	- / 82.321	- / 30.022	- / 19.053	- / 8.340	- / 2.390	- / 0.000	- / 260.415
Installation												
Subtotal: Installation	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total												
Total Cost (Procurement + Support + Installation)	97.426	120.377	121.039	179.193	0.000	179.193	172.818	153.095	157.116	42.501	30.918	1,074.483

Footnotes:

(1) FY2024 increase in quantity of IRST Block II B-Kits is required for the program to meet the necessary total of 55 Low Rate Initial Production (LRIP) kits needed prior to Full Rate Production (FRP).

(2) C.E. 2.1.2 Quantity of 18 "Block I to Block II" kits will convert Block I kits to Block II kits.

(3) C.E. 2.2.2 Supports production line and depot special test equipment needed to further automate acceptance test procedures.

(4) CE 2.2.3 Critical Software Modernization efforts are required for system security, correction of deficiencies, and maintenance of IRST fire control solution in the presence of evolving adversary countermeasures.

(5) CE 3.1 - FY2024 Increase in data is required to support IRST Block II fielding.

(6) C.E. 3.3 FY2024 SE increase is to support Operational Test Program Sets (OTPS) (\$38.704M), Infrared Receiver (IRR)/Environment Control Unit (ECU)/Inertial Measurement Unit (IMU) Special Tooling Equipment (STE) (\$30.44M) and IRST Stand support equipment (\$826K). Support equipment funding is not strictly tied to fiscal year B-Kit procurement requirements and thus should not ramp similarly. Support Equipment levels requested in FY2024 are required to support lead times required for Intermediate-Level and Depot-Level Maintenance standup for the IRST system in FY2026/2027. Funds will prevent increased reliance on Original Equipment Manufacturer (OEM) for maintenance and repair of assets. Failure to resource will result in increased repair costs, repair cycle turnaround times increasing by more than

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0515 / Infrared Search and Track (IRST)	Modification Number / Title: 1 / Infrared Search and Track (IRST) (04-14)
ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:	
<p>four months per component, and the inability to repair IRST components on the aircraft carrier; all of which will significantly impact operational readiness of forward deployed IRST assets, particularly in a time of war. Without Intermediate and Depot level maintenance a significant increase in spares would be required in FY2024 to compensate for OEM repair capacity limits and maintain operational readiness in the FY2026 and FY2027 timeframe. This cost is well in excess of the cost of building organic capacity on schedule.</p>		

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Exhibit P-40, Budget Line Item Justification: PB 2024 Navy **Date:** March 2023

Appropriation / Budget Activity / Budget Sub Activity: 1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft	P-1 Line Item Number / Title: 0522 / Adversary
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	122.734	137.875	105.188	69.336	0.000	69.336	53.154	34.363	36.702	37.168	42.765	639.285
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	122.734	137.875	105.188	69.336	0.000	69.336	53.154	34.363	36.702	37.168	42.765	639.285
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	122.734	137.875	105.188	69.336	0.000	69.336	53.154	34.363	36.702	37.168	42.765	639.285

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

This line item funds the modifications to the Adversary aircraft and mission systems. The Adversary aircraft are a combination of 43 F-5 Tiger IIs (40 F-5Ns and 3 F-5Fs), the J85 Engine supporting the F-5, 14 Block 15 F-16 Fighting Falcon (10 F-16As and 4 F-16Bs), and the F-100 Engine supporting the F-16. The Adversary aircraft provide essential sorties in support of TOPGUN, Fleet Replacement Squadron, Carrier Strike Group, Carrier Air Wing and Unit Deployment Plan. Both the F-5s and the F-16s are planned to be used as primary Adversary mission through 2035. An additional 22 F-5s (16 F-5Es and 6 F-5Fs) were procured in 2020 from the Swiss government and will be upgraded to the USN/USMC NATOPS configuration. An additional 26 F-16s (20 Block 32 F-16Cs and 6 Block 25 F-16Ds) began transferring in April 2022 from the United States Air Force/Air National Guard. These aircraft will be upgraded to maintain common configuration with the USAF program. Adversary Missions Systems will provide peer threat replication and support future integration of Live, Virtual, and Constructive (LVC) capabilities.

Secondary Distribution	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028
NR	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	137.875	105.188	69.336	-	69.336	53.154	34.363	36.702
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	137.875	105.188	69.336	-	69.336	53.154	34.363	36.702

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Exhibit P-40, Budget Line Item Justification: PB 2024 Navy	Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft	P-1 Line Item Number / Title: 0522 / Adversary

ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	1 / F-5 System Safety and Sustainability OSIP 017-17 (Safety/Reliability)				- / 49.846	- / 65.482	- / 59.294	- / 48.591	- / 0.000	- / 48.591
P-3a	2 / F-16 SLEP OSIP 011-21 (Safety/Reliability)				- / 0.000	- / 15.610	- / 17.169	- / 5.779	- / 0.000	- / 5.779
P-3a	3 / F-16 Adversary Modernization OSIP 003-22 (Safety/Reliability)				- / 0.000	- / 56.783	- / 28.725	- / 14.966	- / 0.000	- / 14.966
P-3a	4 / Adversary Mission Systems OSIP 001-27 (TBD)				- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000
P-3a	5 / Inactive OSIPs (TBD)				- / 72.888	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000
P-40	Total Gross/Weapon System Cost				- / 122.734	- / 137.875	- / 105.188	- / 69.336	- / 0.000	- / 69.336

Exhibits Schedule					FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	1 / F-5 System Safety and Sustainability OSIP 017-17 (Safety/Reliability)				- / 32.496	- / 21.592	- / 22.265	- / 22.800	- / 1.275	- / 323.641
P-3a	2 / F-16 SLEP OSIP 011-21 (Safety/Reliability)				- / 5.588	- / 7.331	- / 11.243	- / 12.512	- / 41.490	- / 116.722
P-3a	3 / F-16 Adversary Modernization OSIP 003-22 (Safety/Reliability)				- / 15.070	- / 5.440	- / 1.882	- / 0.000	- / 0.000	- / 122.866
P-3a	4 / Adversary Mission Systems OSIP 001-27 (TBD)				- / 0.000	- / 0.000	- / 1.312	- / 1.856	- / 0.000	- / 3.168
P-3a	5 / Inactive OSIPs (TBD)				- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 72.888
P-40	Total Gross/Weapon System Cost				- / 53.154	- / 34.363	- / 36.702	- / 37.168	- / 42.765	- / 639.285

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

Justification:
 OSIP 017-17: Funds are requested in FY 2024 to continue the reconfiguration of the F-5 aircraft procured from the Swiss government in 2020. Funds requested would provide for the procurement of the kits, installation, and other support required to bring aircraft into the USN/USMC NATOPS configuration and will include Mk16 Ejection Seats and DADC/ADSB.
 OSIP 011-21: Funds are requested in FY 2024 for the Air Vehicle modification of F-16A/B adversary aircraft which include legacy Falcon Structural Augmentation Roadmap (STAR) and additional structural modifications identified by the OEM. These upgrades will extend the service life of the current Adversary F-16 fleet from 4,250 flight hours to 8,000 equivalent flight hours through airframe strengthening and air vehicle upgrades required to maintain sufficient aircraft inventory to meet Fleet operational requirements. Funds requested in FY 2024 would be used to establish USN organic F-16 depot capability.
 OSIP 003-22: Funds are requested in FY 2024 to continue to fund production kits for the avionics and radar upgrades to maintain a common configuration with the USAF F-16 program. Installations will be performed as a depot or depot field team mod.

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0522 / Adversary	Modification Number / Title: 1 / F-5 System Safety and Sustainability OSIP 017-17

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	49.846	65.482	59.294	48.591	0.000	48.591	32.496	21.592	22.265	22.800	1.275	323.641
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	49.846	65.482	59.294	48.591	0.000	48.591	32.496	21.592	22.265	22.800	1.275	323.641
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	49.846	65.482	59.294	48.591	0.000	48.591	32.496	21.592	22.265	22.800	1.275	323.641

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

This Operational Safety Improvement Program (OSIP) funds modifications to F-5 aircraft to implement safety updates as well as required upgrades to avionics systems for Federal Aviation Administration (FAA) compliance.

This OSIP includes efforts that address modifications to address safety, reliability, structural integrity, mission availability, maintainability, weapon system employment, obsolescence, and Diminishing Manufacturing Source (DMSMS) requirements. Modifications include Airframe, sub-systems, weapon system, and avionics systems. Additional modifications may be required due to emergent cyber security requirements.

Initiatives include, but are not limited to: Avionics Reconfiguration & Tactical Enhancement/Modernization for Inventory Standardization (ARTEMIS) which consists of the reconfiguration and baselining of repatriated aircraft to the USN/USMC F-5N/F NATOPS configuration, Mk16 Ejection Seats, and DADC/ADSB. Integration of Tactical Infrared Search and Track (IRST) planned to start in FY 2026.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

ARTEMIS installations scheduled to continue in FY 2024. ARTEMIS kits, DADC/ADSB and Mk16 Ejection Seats are being procured under existing contracts and will be delivered to support the planned concurrent install schedule. The modification schedule is developed balancing throughput capacity and workflow efficiencies. The aircraft will be reconfigured from Swiss F-5E/F to the USN/USMC F-5N/F NATOPS configuration while receiving Mk16 Ejection Seats, and DADC/ADSB during concurrent maintenance and installation efforts.

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Exhibit P-3a, Individual Modification: PB 2024 Navy										Date: March 2023			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0522 / Adversary					Modification Number / Title: 1 / F-5 System Safety and Sustainability OSIP 017-17			
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: F-5 Adversary Series			Modification Type: Safety/Reliability				Related RDT&E PEs:						
Financial Plan		Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
(*) Indicates the modification is being installed organically and no installation funds are required.		Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Procurement													
1.1.1) ARTEMIS - NonOrganic ⁽¹⁾ <i>Installation 1 of 5</i>		- / -	6 / 10.009	5 / 5.696	5 / 5.962	- / -	5 / 5.962	- / -	- / -	- / -	- / -	- / -	16 / 21.667
1.1.2) ARTEMIS BUP Kits - NonOrganic ⁽²⁾ <i>Installation 2 of 5</i>		- / -	- / -	5 / 13.093	5 / 13.093	- / -	5 / 13.093	- / -	- / -	- / -	- / -	- / -	10 / 26.186
1.1.3) ARTEMIS Engine Kits - Organic ^{(*) (3)}		- / -	7 / 10.805	8 / 13.868	2 / 4.386	- / -	2 / 4.386	6 / 12.400	- / -	- / -	- / -	- / -	23 / 41.459
1.1.4) A Kits Tactical Infrared Search & Track (IRST) - NonOrganic <i>Installation 3 of 5</i>		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	11 / 3.684	11 / 4.093	- / -	22 / 7.777
1.1.5) Archive ECP's - Organic ^(*)		12 / 0.340	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	12 / 0.340
2.1.1) B Kits Swiss Reconfiguration - NonOrganic <i>Installation 4 of 5</i>		6 / 8.121	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	6 / 8.121
2.1.2) B Kits DADC/ADSB - Organic ^{(*) (4)}		6 / 0.367	6 / 0.385	5 / 0.345	5 / 0.362	- / -	5 / 0.362	- / -	- / -	- / -	- / -	- / -	22 / 1.459
2.1.3) B Kits Ejection Seats (Concurrent with ARTEMIS) - Organic ^{(*) (5)}		6 / 1.903	6 / 1.903	5 / 1.718	5 / 1.761	- / -	5 / 1.761	- / -	- / -	- / -	- / -	- / -	22 / 7.285
2.1.4) Ejection Seats Simulators - Organic ^(*)		- / -	4 / 0.720	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4 / 0.720
2.1.5) B Kits Cockpit Display Upgrade - NonOrganic <i>Installation 5 of 5</i>		6 / 14.040	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	6 / 14.040
2.1.6) B Kits Simulator - Organic ^(*)		- / -	2 / 6.460	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 6.460
2.1.7) B Kits Tactical Infrared Search & Track (IRST) - Organic ^(*)		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	11 / 14.408	11 / 15.044	- / -	22 / 29.452
2.1.8) Archive ECPs - Organic ^(*)		89 / 6.258	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	89 / 6.258
2.2.1) Simulator NRE - Organic ^(*)		- / -	- / 2.540	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.540
2.2.2) Tactical Infrared Search & Track (IRST) NRE - Organic ^(*)		- / -	- / -	- / -	- / -	- / -	- / -	- / 19.592	- / -	- / -	- / -	- / -	- / 19.592
2.2.3) Archive NRE - Organic ^(*)		- / 9.674	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 9.674
Subtotal: Procurement		- / 40.703	- / 32.822	- / 34.720	- / 25.564	- / -	- / 25.564	- / 12.400	- / 19.592	- / 18.092	- / 19.137	- / 0.000	- / 203.030
Support													
3.1) Other Support ⁽⁶⁾		- / 4.603	- / 6.335	- / 4.910	- / 3.838	- / -	- / 3.838	- / 2.378	- / 2.000	- / 2.728	- / 1.982	- / -	- / 28.774
3.2) ILS ⁽⁷⁾		- / 1.281	- / 2.748	- / 3.284	- / 3.489	- / -	- / 3.489	- / 2.018	- / -	- / 0.995	- / 0.406	- / -	- / 14.221
3.3) Support Equipment		- / 3.259	- / 3.092	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.450	- / -	- / -	- / 6.801
Subtotal: Support		- / 9.143	- / 12.175	- / 8.194	- / 7.327	- / -	- / 7.327	- / 4.396	- / 2.000	- / 4.173	- / 2.388	- / 0.000	- / 49.796
Installation													

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0522 / Adversary	Modification Number / Title: 1 / F-5 System Safety and Sustainability OSIP 017-17

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Models of Systems Affected: F-5 Adversary Series	Modification Type: Safety/Reliability	Related RDT&E PEs:
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Financial Plan <small>(*) Indicates the modification is being installed organically and no installation funds are required.</small>	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Installation 1 of 5: ARTEMIS	- / -	- / -	- / 16.380	- / 12.410	- / 0.000	- / 12.410	- / 12.410	- / -	- / -	- / -	- / 0.000	- / 41.200
Installation 2 of 5: ARTEMIS BUP Kits	- / -	- / -	- / -	- / 3.290	- / 0.000	- / 3.290	- / 3.290	- / -	- / -	- / -	- / 0.000	- / 6.580
Installation 3 of 5: A Kits Tactical Infrared Search & Track (IRST)	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.275	- / 1.275	- / 2.550
Installation 4 of 5: GRP: Swiss Reconfiguration	- / -	- / 16.417	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 16.417
Installation 5 of 5: B Kits Cockpit Display Upgrade	- / -	- / 4.068	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 4.068
<i>Subtotal: Installation</i>	- / 0.000	- / 20.485	- / 16.380	- / 15.700	- / -	- / 15.700	- / 15.700	- / -	- / -	- / 1.275	- / 1.275	- / 70.815
Total												
Total Cost (Procurement + Support + Installation)	49.846	65.482	59.294	48.591	0.000	48.591	32.496	21.592	22.265	22.800	1.275	323.641

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0522 / Adversary	Modification Number / Title: 1 / F-5 System Safety and Sustainability OSIP 017-17

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Installation 1 of 5: ARTEMIS

Manufacturer Information

Manufacturer Name: TACAIR	Manufacturer Location: Reno, NV
Administrative Leadtime (in Months): 9	Production Leadtime (in Months): 12

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates	Jun 2022	Jun 2023	Jun 2024				
Delivery Dates	Jun 2023	Jun 2024	Jun 2025				

Installation Information

Method of Implementation: [none specified]:: Installation Name: ARTEMIS

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	6 / 16.380	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	6 / 16.380
FY 2023	- / -	- / -	- / -	5 / 12.410	0 / 0.000	5 / 12.410	- / -	- / -	- / -	- / -	0 / 0.000	5 / 12.410
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	5 / 12.410	- / -	- / -	- / -	0 / 0.000	5 / 12.410
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	6 / 16.380	5 / 12.410	0 / 0.000	5 / 12.410	5 / 12.410	- / -	- / -	- / -	0 / 0.000	16 / 41.200

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	3	3	-	2	1	2	-	2	1	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Out	-	-	-	-	-	-	-	-	-	-	-	3	3	-	2	1	2	-	2	1	2	-	-	-	-	-	-	-	-	-	-

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0522 / Adversary	Modification Number / Title: 1 / F-5 System Safety and Sustainability OSIP 017-17

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Installation 2 of 5: ARTEMIS BUP Kits

Manufacturer Information

Manufacturer Name: TACAIR	Manufacturer Location: Reno, NV
Administrative Leadtime (in Months): 9	Production Leadtime (in Months): 12

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates		Jun 2023	Jun 2024				
Delivery Dates		Jun 2024	Jun 2025				

Installation Information

Method of Implementation: TBD:: Installation Name: ARTEMIS BUP Kits

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	5 / 3.290	0 / 0.000	5 / 3.290	- / -	- / -	- / -	- / -	0 / 0.000	5 / 3.290
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	5 / 3.290	- / -	- / -	- / -	0 / 0.000	5 / 3.290
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	5 / 3.290	0 / 0.000	5 / 3.290	5 / 3.290	- / -	- / -	- / -	0 / 0.000	10 / 6.580

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot	
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4			
In	-	-	-	-	-	-	-	-	-	-	-	3	2	-	-	3	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	2	-	-	-	3	2	-	-	-	-	-	-	-	-	-	-	10

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0522 / Adversary	Modification Number / Title: 1 / F-5 System Safety and Sustainability OSIP 017-17

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Installation 3 of 5: A Kits Tactical Infrared Search & Track (IRST)

Manufacturer Information

Manufacturer Name: TBD	Manufacturer Location: TBD
Administrative Leadtime (in Months): 3	Production Leadtime (in Months): 12

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates						Jan 2027	Jan 2028
Delivery Dates						Jan 2028	Jan 2029

Installation Information

Method of Implementation: [none specified]:: Installation Name: A Kits Tactical Infrared Search & Track (IRST)

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	9 / 1.275	2 / 0.000
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	11 / 1.275	11 / 1.275
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	9 / 1.275	13 / 1.275

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot				
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4						
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	3	3	13	22	
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	3	16	22

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0522 / Adversary	Modification Number / Title: 1 / F-5 System Safety and Sustainability OSIP 017-17

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Installation 4 of 5: GRP: Swiss Reconfiguration

Manufacturer Information

Manufacturer Name: TACAIR	Manufacturer Location: Reno, NV
Administrative Leadtime (in Months): 9	Production Leadtime (in Months): 12

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates							
Delivery Dates							

Installation Information

Method of Implementation: Method:: Installation Name: Swiss Reconfiguration

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	6 / 16.417	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	6 / 16.417
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	6 / 16.417	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	6 / 16.417

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot			
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4					
In	-	-	-	3	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6
Out	-	-	-	-	-	-	-	3	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0522 / Adversary	Modification Number / Title: 1 / F-5 System Safety and Sustainability OSIP 017-17

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Installation 5 of 5: B Kits Cockpit Display Upgrade

Manufacturer Information

Manufacturer Name: TACAIR	Manufacturer Location: Reno, NV
Administrative Leadtime (in Months): 9	Production Leadtime (in Months): 12

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates							
Delivery Dates							

Installation Information

Method of Implementation: [none specified]:: Installation Name: B Kits Cockpit Display Upgrade

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	6 / 4.068	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	6 / 4.068
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	6 / 4.068	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	6 / 4.068

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot	
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4			
In	-	-	-	3	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6
Out	-	-	-	-	-	-	-	3	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6

Footnotes:
 (1) This cost element provides for the procurement of ARTEMIS kits. The ARTEMIS kit will include all material required to reconfigure the repatriated Swiss aircraft to the USN/USMC F-5N/F NATOPS configuration. During installation, the ARTEMIS vendor will be provided DADC/ADSB kits and Ejection Seat kits as GFE to be installed concurrently with the ARTEMIS modification, maximizing production efficiencies. This nomenclature replaces the Swiss Reconfiguration kits from previous budget exhibits.

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0522 / Adversary	Modification Number / Title: 1 / F-5 System Safety and Sustainability OSIP 017-17
ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:	
<p>(2) This cost element provides for the procurement of the Block Upgrade (BUP), previously referred to as Cockpit Display Upgrade. The kits will be procured via the ARTEMIS vendor and be installed concurrently with the ARTEMIS modification to maximize production efficiencies.</p> <p>(3) This cost element provides for the procurement of various ECPs required to repatriate the J85 engines in conjunction with the ARTEMIS program.</p> <p>(4) The DADC/ADSB kits will be procured and provided to the ARTEMIS vendor as GFE for installation concurrent with the ARTEMIS modification.</p> <p>(5) The Ejection Seat kits will be procured and provided to the ARTEMIS vendor as GFE for installation concurrent with the ARTEMIS modification.</p> <p>(6) Other Support, cost element 3.1 provides for engineering, logistics, program management, acquisition, Fleet Support Team at FRCSE, configuration/documentation management, and test support efforts required to incorporate the modifications into the repatriated F-5 aircraft.</p> <p>(7) Cost element 3.2 provides for integrated logistics support associated with the ARTEMIS upgrade. This will include ILS performed by the Fleet Support Team at FRCSE, technical and maintenance publication development and updates, non-standard repair engineering analysis and disposition, software licenses/subscriptions, and support equipment calibration business plans and procedures.</p>		

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Exhibit P-3a, Individual Modification: PB 2024 Navy	Date: March 2023
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Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0522 / Adversary	Modification Number / Title: 2 / F-16 SLEP OSIP 011-21
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ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	0.000	15.610	17.169	5.779	0.000	5.779	5.588	7.331	11.243	12.512	41.490	116.722
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) <i>(\$ in Millions)</i>	0.000	15.610	17.169	5.779	0.000	5.779	5.588	7.331	11.243	12.512	41.490	116.722
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	0.000	15.610	17.169	5.779	0.000	5.779	5.588	7.331	11.243	12.512	41.490	116.722

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Dollars)</i>	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The F-16 Service Life Extension Program (SLEP) Operational Safety Improvement Program (OSIP) funds the modifications to the 10 F-16A, 4 F-16B Adversary aircraft required to maintain sufficient aircraft inventory to meet Fleet operational requirements. These modifications will increase the service life from 4,250 flight hours to 8,000 equivalent flight hours and extend service life through airframe strengthening, and Air Vehicle upgrades, and just in time modifications to prevent aircraft grounding due to fatigue. Modifications include, but are not limited to, upgrading the airframe, and Air Vehicle Systems.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

Due to constraints and prioritization of Air Force F-16 depot capacity, USN F-16 SLEP rephased to account for time to establish USN organic depot capability to support FY 2025 installations.

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy										Date: March 2023			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0522 / Adversary					Modification Number / Title: 2 / F-16 SLEP OSIP 011-21			
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: F-16 ADVERSARY SERIES				Modification Type: Safety/Reliability				Related RDT&E PEs:					
Financial Plan <small>(*) Indicates the modification is being installed organically and no installation funds are required.</small>	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
1.1.1) USN SLEP VAL/VER - NonOrganic <i>Installation 1 of 2</i>	- / -	- / -	1 / 0.760	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.760	
1.1.2) USN SLEP - NonOrganic ⁽⁶⁾ <i>Installation 2 of 2</i>	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.807	2 / 1.662	2 / 1.712	2 / 1.763	6 / 5.556	13 / 11.500	
2.1.1) Radar - Organic ⁽⁷⁾	- / -	2 / 4.841	2 / 4.986	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4 / 9.827	
2.2.1) USN SLEP NRE - NonOrganic ⁽⁷⁾	- / -	- / 7.450	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 7.450	
2.2.2) Radar NRE - NonOrganic ⁽⁷⁾	- / -	- / 1.211	- / 5.268	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 6.479	
Subtotal: Procurement	- / 0.000	- / 13.502	- / 11.014	- / -	- / -	- / -	- / 0.807	- / 1.662	- / 1.712	- / 1.763	- / 5.556	- / 36.016	
Support													
3.1) Other Support ⁽⁹⁾	- / -	- / 2.108	- / 2.189	- / 1.785	- / -	- / 1.785	- / 1.123	- / 1.739	- / 2.024	- / 2.213	- / 5.151	- / 18.332	
3.2) ILS ⁽¹⁰⁾	- / -	- / -	- / 1.618	- / 1.175	- / -	- / 1.175	- / 0.760	- / 0.945	- / 1.358	- / 1.310	- / 4.098	- / 11.264	
3.3) Support Equipment ⁽¹¹⁾	- / -	- / -	- / 1.600	- / 1.825	- / -	- / 1.825	- / -	- / -	- / -	- / 0.892	- / -	- / 4.317	
3.4) Data ⁽¹²⁾	- / -	- / -	- / 0.748	- / 0.994	- / -	- / 0.994	- / -	- / -	- / -	- / -	- / -	- / 1.742	
Subtotal: Support	- / 0.000	- / 2.108	- / 6.155	- / 5.779	- / -	- / 5.779	- / 1.883	- / 2.684	- / 3.382	- / 4.415	- / 9.249	- / 35.655	
Installation													
Installation 1 of 2: GRP: USN SLEP	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.898	- / -	- / -	- / -	- / 0.000	- / 2.898	
Installation 2 of 2: USN SLEP	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.985	- / 6.149	- / 6.334	- / 26.685	- / 42.153	
Subtotal: Installation	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / 2.898	- / 2.985	- / 6.149	- / 6.334	- / 26.685	- / 45.051	
Total													
Total Cost (Procurement + Support + Installation)	0.000	15.610	17.169	5.779	0.000	5.779	5.588	7.331	11.243	12.512	41.490	116.722	

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Exhibit P-3a, Individual Modification: PB 2024 Navy **Date:** March 2023

Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0522 / Adversary	Modification Number / Title: 2 / F-16 SLEP OSIP 011-21
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ID Code (A=Service Ready, B=Not Service Ready) : **MDAP/MAIS Code:**

Installation 1 of 2: GRP: USN SLEP

Manufacturer Information

Manufacturer Name: TBD Manufacturer Location: TBD

Administrative Leadtime (in Months): 2 Production Leadtime (in Months): 24

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates		Nov 2022					
Delivery Dates		Nov 2024					

Installation Information

Method of Implementation: Method:: Installation Name: USN SLEP

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	1 / 2.898	- / -	- / -	- / -	0 / 0.000	1 / 2.898
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	- / -	- / -	- / -	1 / 2.898	- / -	- / -	- / -	0 / 0.000	1 / 2.898

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-

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Exhibit P-3a, Individual Modification: PB 2024 Navy **Date:** March 2023

Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0522 / Adversary	Modification Number / Title: 2 / F-16 SLEP OSIP 011-21
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ID Code (A=Service Ready, B=Not Service Ready) : **MDAP/MAIS Code:**

Installation 2 of 2: USN SLEP

Manufacturer Information

Manufacturer Name: TBD	Manufacturer Location: TBD
Administrative Leadtime (in Months): 4	Production Leadtime (in Months): 12

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates				Jan 2025	Nov 2026	Nov 2027	Nov 2028
Delivery Dates				Jan 2026	Nov 2027	Nov 2028	Nov 2029

Installation Information

Method of Implementation: [none specified]:: Installation Name: USN SLEP

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 2.985	- / -	- / -	0 / 0.000	1 / 2.985
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 6.149	- / -	0 / 0.000	2 / 6.149
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 6.334	0 / 0.000	2 / 6.334
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 6.524	2 / 6.524
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	6 / 20.161	6 / 20.161
Total	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 2.985	2 / 6.149	2 / 6.334	8 / 26.685	13 / 42.153

Installation Schedule

PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	1	-	1	-	1	-	1	8	13
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	1	-	1	10	13

Footnotes:
 (8) Cost element funds procurement of SLEP kits including legacy Falcon Structural Augmentation Roadmap (STAR) A Kits and additional structural modification parts.
 (9) Cost element funds other support for F-16 USN SLEP efforts. Funding provides engineering, logistics, program management, acquisition, configuration/documentation management to incorporate the modifications into the F-16 aircraft including establishment of USN organic F-16 depot capability.
 (10) Cost element funds integrated logistics support for F-16 USN SLEP efforts in FY 2024 including establishment of USN organic F-16 depot capability.

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0522 / Adversary	Modification Number / Title: 2 / F-16 SLEP OSIP 011-21
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:
<p>(11) Cost element funds initial support equipment applicable to F-16 for USN SLEP efforts in FY 2024 including support equipment required for the establishment of USN organic F-16 depot capability.</p> <p>(12) Cost element funds incorporation of all configuration changes into technical publications applicable to the F-16 SLEP efforts in FY 2024.</p>		

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0522 / Adversary	Modification Number / Title: 3 / F-16 Adversary Modernization OSIP 003-22

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	0.000	56.783	28.725	14.966	0.000	14.966	15.070	5.440	1.882	0.000	0.000	122.866
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	0.000	56.783	28.725	14.966	0.000	14.966	15.070	5.440	1.882	0.000	0.000	122.866
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	0.000	56.783	28.725	14.966	0.000	14.966	15.070	5.440	1.882	0.000	0.000	122.866

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The F-16 Adversary Modernization Operational Safety Improvement Program (OSIP) funds the modifications to F-16C/Ds that began transferring to the USN from the USAF/ANG in April 2022. These modifications leverage existing Engineering Change Proposals to maintain the aircraft in the same configuration as USAF/ANG Block 30/32 F-16s. The program maximizes supportability by maintaining a common configuration with the USAF/ANG Block 30/32 fleet while also increasing the capability of the jets as advanced adversary platforms.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

Production lead time of the Avionics Modernization Kits is significantly longer than the original projection. Installations planned in FY 2023 will be delayed by 12 months. Installation schedule and funding request was rephased starting in FY 2024 to account for updated lead times. The Avionics kit procurement and installation schedule will align with Radar installation and mandatory Depot Maintenance to the maximum extent possible. Installations will be performed as a Depot or Depot Field Team mod.

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Exhibit P-3a, Individual Modification: PB 2024 Navy										Date: March 2023			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0522 / Adversary					Modification Number / Title: 3 / F-16 Adversary Modernization OSIP 003-22			
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: F-16 ADVERSARY SERIES			Modification Type: Safety/Reliability					Related RDT&E PEs:					
Financial Plan <small>(* Indicates the modification is being installed organically and no installation funds are required.)</small>	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
1.1.1) Avionics Modernization Kits Lot A - NonOrganic ⁽¹³⁾ <i>Installation 1 of 3</i>	- / -	6 / 1.185	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	6 / 1.185	
1.1.2) Avionics Modernization Kits Lot B - NonOrganic ⁽¹⁴⁾ <i>Installation 2 of 3</i>	- / -	- / -	5 / 1.017	5 / 1.048	- / -	5 / 1.048	2 / 0.432	- / -	- / -	- / -	- / -	12 / 2.497	
1.1.3) Radar + Radome - Organic ⁽¹⁵⁾	- / -	11 / 0.850	4 / 0.318	1 / 0.082	- / -	1 / 0.082	2 / 0.169	- / -	- / -	- / -	- / -	18 / 1.419	
2.1.1) Avionics Modernization Kits Lot A - Organic ⁽¹⁶⁾	- / -	6 / 6.129	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	6 / 6.129	
2.1.2) Avionics Modernization Kits Lot B - Organic ⁽¹⁷⁾	- / -	- / -	5 / 5.261	5 / 5.418	- / -	5 / 5.418	2 / 2.232	- / -	- / -	- / -	- / -	12 / 12.911	
2.1.3) Radar + Radome - Organic ⁽¹⁸⁾	- / -	11 / 26.730	4 / 10.012	1 / 2.578	- / -	1 / 2.578	2 / 5.311	- / -	- / -	- / -	- / -	18 / 44.631	
2.2.1) Avionics Modernization NRE - NonOrganic <i>Installation 3 of 3</i>	- / -	2 / 3.388	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 3.388	
2.2.3) Radar + Radome NRE - NonOrganic <i>Installation 3 of 3</i>	- / -	2 / 5.014	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 5.014	
2.2.2) RedNET Integration NRE - Organic ⁽¹⁾	- / -	- / 4.307	- / 0.705	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 5.012	
2.2.4) Simulator NRE - Organic ⁽¹⁾	- / -	1 / 3.463	1 / 3.769	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 7.232	
Subtotal: Procurement	- / 0.000	- / 51.066	- / 21.082	- / 9.126	- / -	- / 9.126	- / 8.144	- / -	- / -	- / -	- / 0.000	- / 89.418	
Support													
3.1) Other Support ⁽¹⁹⁾	- / -	- / 1.291	- / 1.543	- / 2.700	- / -	- / 2.700	- / 2.433	- / 2.152	- / 1.062	- / -	- / -	- / 11.181	
3.2) ILS ⁽²⁰⁾	- / -	- / 1.283	- / 2.077	- / 2.082	- / -	- / 2.082	- / 1.768	- / 1.263	- / -	- / -	- / -	- / 8.473	
3.3) Support Equipment ⁽²¹⁾	- / -	- / 1.423	- / 1.246	- / 1.058	- / -	- / 1.058	- / 0.670	- / -	- / -	- / -	- / -	- / 4.397	
3.4) Data	- / -	- / 0.570	- / 0.336	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.906	
Subtotal: Support	- / 0.000	- / 4.567	- / 5.202	- / 5.840	- / -	- / 5.840	- / 4.871	- / 3.415	- / 1.062	- / -	- / 0.000	- / 24.957	
Installation													
Installation 1 of 3: GRP: Avionics	- / -	- / -	- / 2.441	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 2.441	
Installation 2 of 3: Avionics Modernization Kits Lot B	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.055	- / 2.025	- / 0.820	- / -	- / 0.000	- / 4.900	
Installation 3 of 3: GRP: Avionics & Radar + Radome NRE	- / -	- / 1.150	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 1.150	
Subtotal: Installation	- / 0.000	- / 1.150	- / 2.441	- / -	- / -	- / -	- / 2.055	- / 2.025	- / 0.820	- / -	- / 0.000	- / 8.491	
Total													

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0522 / Adversary	Modification Number / Title: 3 / F-16 Adversary Modernization OSIP 003-22

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Models of Systems Affected: F-16 ADVERSARY SERIES	Modification Type: Safety/Reliability	Related RDT&E PEs:
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Financial Plan <small>(*) Indicates the modification is being installed organically and no installation funds are required.</small>	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>
Total Cost (Procurement + Support + Installation)	0.000	56.783	28.725	14.966	0.000	14.966	15.070	5.440	1.882	0.000	0.000	122.866

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0522 / Adversary	Modification Number / Title: 3 / F-16 Adversary Modernization OSIP 003-22

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Installation 1 of 3: GRP: Avionics

Manufacturer Information

Manufacturer Name: Various	Manufacturer Location: Various
Administrative Leadtime (in Months): 2	Production Leadtime (in Months): 12

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates	Dec 2021						
Delivery Dates	Dec 2022						

Installation Information

Method of Implementation: Method:: Installation Name: Avionics

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	6 / 2.441	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	6 / 2.441
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	6 / 2.441	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	6 / 2.441

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot	
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4			
In	-	-	-	-	-	1	2	1	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6
Out	-	-	-	-	-	-	-	1	2	1	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0522 / Adversary	Modification Number / Title: 3 / F-16 Adversary Modernization OSIP 003-22

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Installation 2 of 3: Avionics Modernization Kits Lot B

Manufacturer Information

Manufacturer Name: TBD	Manufacturer Location: TBD
Administrative Leadtime (in Months): 2	Production Leadtime (in Months): 24

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates		Dec 2022	Dec 2023	Dec 2024			
Delivery Dates		Dec 2024	Dec 2025	Dec 2026			

Installation Information

Method of Implementation: [none specified]:: Installation Name: Avionics Modernization Kits Lot B

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	5 / 2.055	- / -	- / -	- / -	0 / 0.000	5 / 2.055
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	5 / 2.025	- / -	- / -	0 / 0.000	5 / 2.025
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.820	- / -	0 / 0.000	2 / 0.820
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	- / -	- / -	- / -	5 / 2.055	5 / 2.025	2 / 0.820	- / -	0 / 0.000	12 / 4.900

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	2	1	1	1	2	1	1	1	-	-	-	-	-	-	-	12
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	2	1	1	1	2	1	1	1	-	-	-	-	12

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0522 / Adversary	Modification Number / Title: 3 / F-16 Adversary Modernization OSIP 003-22

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Installation 3 of 3: GRP: Avionics & Radar + Radome NRE

Manufacturer Information

Manufacturer Name: Various	Manufacturer Location: Various
Administrative Leadtime (in Months): 2	Production Leadtime (in Months): 6

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates	Dec 2021						
Delivery Dates	Jun 2022						

Installation Information

Method of Implementation: Method:: Installation Name: Avionics & Radar + Radome NRE

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	4 / 1.150	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	4 / 1.150
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	4 / 1.150	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	4 / 1.150

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Out	-	-	-	-	-	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Footnotes:

(13) Production lead time of the Avionics Modernization Kits is significantly longer than the original projection. Installations planned in FY 2023 will be delayed by 12 months.

(14) Cost element provides funding to procure A Kits including wiring upgrades needed to maintain a modernized avionics configuration with the USAF F-16 program including but not limited to advanced Identification Friend or Foe (IFF), electronic warfare systems, LINK-16 (MIDS/JTRS), and REDNET.

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0522 / Adversary	Modification Number / Title: 3 / F-16 Adversary Modernization OSIP 003-22
ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:	
<p>(15) Cost element provides funding to procure AESA Radars and associated Radome modification A Kits.</p> <p>(16) Production lead time of the Avionics Modernization Kits is significantly longer then the original projection. Installations planned in FY 2023 will be delayed by 12 months.</p> <p>(17) Cost element provides funding to procure B Kits needed to maintain a modernized avionics configuration with the USAF F-16 program, including but not limited to advanced Identification Friend or Foe (IFF), electronic warfare systems, and LINK-16 (MIDS/JTRS).</p> <p>(18) Cost element provides funding to procure AESA Radars and associated Radome modification B Kits.</p> <p>(19) Cost element funds other support for F-16 upgrade efforts. Increase in FY 2024 provides engineering, logistics, program management, acquisition, configuration/documentation management for simultaneous field team and depot installations of the Radar +Radome modifcations into the F-16 aircraft.</p> <p>(20) Cost element funds integrated logistics support for F-16 upgrade efforts.</p> <p>(21) Cost element funds initial support equipment applicable to the F-16 upgrade efforts.</p>		

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0522 / Adversary	Modification Number / Title: 4 / Adversary Mission Systems OSIP 001-27

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.312	1.856	0.000	3.168
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.312	1.856	0.000	3.168
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.312	1.856	0.000	3.168

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The Airborne Adversary Mission Systems Operational Safety Improvement Program (OSIP) funds the integration of classified Adversary Mission Systems hardware and software into existing airborne adversary aircraft carrying TCTS Increment II systems. This system combined with a classified electronic kneeboard provides a platform agnostic, cost-effective solution to allow Naval Airborne Adversaries (currently F-5, F-16, F-18s and Contracted Air Services) to accurately simulate threat capabilities without modification of the aircrafts' existing Operational Flight Program (OFP). These systems will also provides the framework for participation in the LVC environment and advanced physics and effects-based threat replication capabilities.

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0522 / Adversary	Modification Number / Title: 4 / Adversary Mission Systems OSIP 001-27

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Models of Systems Affected: Adversary Mission Systems	Modification Type: TBD	Related RDT&E PEs: PE 0204571N, PU 1982
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Financial Plan	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Procurement												
<i>Modification Item 1 of 1:</i> Adversary Mission Systems OSIP 001-27												
A Kits												
Recurring												
1.1.1) Nonembedded Aircraft Processing Systems - Organic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.600	- / 0.900	- / -	- / 1.500
<i>Subtotal: Recurring</i>	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.600	- / 0.900	- / 0.000	- / 1.500
<i>Subtotal: Adversary Mission Systems OSIP 001-27</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.600	- / 0.900	- / -	- / 1.500
<i>Subtotal: Procurement, All Modification Items</i>	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.600	- / 0.900	- / 0.000	- / 1.500
Support (All Modification Items)												
3.1) Other Support	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.487	- / 0.731	- / -	- / 1.218
3.2) Support Equipment	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.225	- / 0.225	- / -	- / 0.450
<i>Subtotal: Support</i>	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.712	- / 0.956	- / 0.000	- / 1.668
Installation												
<i>Subtotal: Installation</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total												
Total Cost (Procurement + Support + Installation)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.312	1.856	0.000	3.168

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0522 / Adversary	Modification Number / Title: 4 / Adversary Mission Systems OSIP 001-27
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:
Modification Item 1 of 1: Adversary Mission Systems OSIP 001-27		

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UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy	Date: March 2023
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Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0522 / Adversary	Modification Number / Title: 5 / Inactive OSIPs
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ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	72.888	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	72.888
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	72.888	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	72.888
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	72.888	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	72.888

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Inactive OSIPs prior year totals.

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy										Date: March 2023		
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0522 / Adversary						Modification Number / Title: 5 / Inactive OSIPs		
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:					
Models of Systems Affected: [No Model Specified]				Modification Type: TBD				Related RDT&E PEs:				
Financial Plan <small>(*) Indicates the modification is being installed organically and no installation funds are required.</small>	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>
Procurement												
1.1.1) Inactive OSIP - Organic ^(*)	- / 72.888	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 72.888
<i>Subtotal: Procurement</i>	- / 72.888	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 72.888
Installation												
<i>Subtotal: Installation</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total												
Total Cost (Procurement + Support + Installation)	72.888	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	72.888

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2024 Navy **Date:** March 2023

Appropriation / Budget Activity / Budget Sub Activity: 1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft	P-1 Line Item Number / Title: 0525 / F-18 Series
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: 000

Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	13,529.267	327.000	461.118	640.236	0.000	640.236	724.628	953.615	1,068.998	1,153.697	2,988.897	21,847.456
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	13,529.267	327.000	461.118	640.236	0.000	640.236	724.628	953.615	1,068.998	1,153.697	2,988.897	21,847.456
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	13,529.267	327.000	461.118	640.236	0.000	640.236	724.628	953.615	1,068.998	1,153.697	2,988.897	21,847.456

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

This line item funds modifications to all models of the F/A-18 and EA-18G aircraft.

The F/A-18 Naval Strike Fighter is a twin-engine, mid-wing, multi-mission tactical aircraft. The F/A-18 is employed in both Navy and Marine Corps squadrons. Commencing with the FY 1988 procurement, both the single seat and two-seat F/A-18s include a night attack capability. The F/A-18 can be missionized through selected use of external equipment to accomplish specific fighter or attack missions. This commonality provides the Operational Commander more flexibility in employing tactical aircraft in a dynamic scenario. The primary design mission for the F/A-18 is a strike fighter which includes the traditional fighter applications, such as fighter escort and fleet air defense, combined with the attack applications, such as interdiction and close air support. Since fighter capabilities are available in either mission, a robust self-defense capability is retained.

The EA-18G has the capability to operate autonomously or as a major node in a network centric operation. The performance of the aircraft is compatible with the primary strike/fighter aircraft inventory, allowing it to be fully integrated into specific strike packages. It also has the capacity to provide broad area coverage for extended periods of time to support numerous strikes or other air operations in a federated context. The EA-18G is a scalable, flexible solution facilitating "Task Organized" force structures. Task organized force structures employ adequate forces to accomplish a specific task while maintaining operational and personnel tempo at acceptable levels. The EA-18G is designed to perform a range of Electronic Warfare/Electronic Attack functions either simultaneously or independently. EA-18G man in the loop operation and advanced information display system allow real time assessment of the tactical situation and the appropriate response executed in accordance with the rules of engagement. The EA-18G electronic attack upgrades meet or exceed EA-6B Airborne (with ALQ-218, ALQ-99, USQ-113) Electronic Attack capability to detect, identify, locate and suppress hostile emitters; provide enhanced connectivity to National, Theater and strike assets; and provide organic precision emitter targeting for employment of onboard suppression weapons to fulfill operational requirements.

NOTE: Kit procurements were budgeted and executed properly, in alignment with planned organic depot inductions. Aircraft inductions have exceeded depot capacity due to many aircraft reaching service life limits at the same time, increased turnaround time due to material degradation and corrosion repairs over and above planned modification efforts, and delays caused by sequestration which increased the number of Out of Reporting (OOR) aircraft. Due to these depot constraints, prior year kit procurements became misaligned with aircraft installations. Depot level kit installations have been impacted by depot throughput constraints and backlog. The install schedules reflected in this budget take into account the current constrained depot throughput and backlog. Funds in this budget request are required for on-going modifications to address OOR aircraft.

Current aircraft inventory and Flight hours flown as of 09 February 2023:

F/A-18C - 162 (150 Active, 12 Reserve): service life 8,000 hours (current); 10,000 hours (extended); average service life remaining, 247 hours (current); 2,247 hours (extended)

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Exhibit P-40, Budget Line Item Justification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft		P-1 Line Item Number / Title: 0525 / F-18 Series
ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
Line Item MDAP/MAIS Code: 000		
F/A-18D - 85 (85 Active, 0 Reserve): service life 8,000 hours (current); 10,000 hours (extended); average service life remaining, 327 hours (current); 2,327 hours (extended) F/A-18E - 317 (307 Active, 10 Reserve): service life 6,000 hours (current); 10,000 hours (extended); average service life remaining 2,426 (current-all Non-SLM inducted); 6,388 (extended-Block II aircraft only) F/A-18F - 248 (246 Active, 2 Reserve): service life 6,000 hours (current); 10,000 hours (extended); average service life remaining 1,713 (current-all Non-SLM inducted); 5,513 (extended-Block II aircraft only) EA-18G - 160 (155 Active, 5 Reserve): service life 7,500 hours (current); No extension at this time; average service life remaining 4,787 (current)		

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Exhibit P-40, Budget Line Item Justification: PB 2024 Navy **Date: March 2023**

Appropriation / Budget Activity / Budget Sub Activity: 1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft **P-1 Line Item Number / Title:** 0525 / F-18 Series

ID Code (A=Service Ready, B=Not Service Ready): A **Program Elements for Code B Items:** N/A **Other Related Program Elements:** N/A

Line Item MDAP/MAIS Code: 000

Exhibits Schedule					Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	1 / Joint Helmet Mounted Cueing System (JHMCS) (OSIP 24-00) (CAPABILITY IMPROVEMENT)				- / 316.582	- / 1.058	- / 1.605	- / 0.000	- / 0.000	- / 0.000
P-3a	2 / Advanced Targeting Forward Looking Infrared (ATFLIR) (OSIP 12-01) (CAPABILITY IMPROVEMENTS)				- / 999.399	- / 10.453	- / 21.449	- / 4.990	- / 0.000	- / 4.990
P-3a	3 / F/A-18C/D/E/F and EA-18G Training System (OSIP 006-02) (TRAINERS UPGRADE)				- / 364.161	- / 32.493	- / 44.095	- / 52.281	- / 0.000	- / 52.281
P-3a	4 / Core Avionics Improvements / Upgrades (OSIP 023-04) (Capability and Reliability Improvements)				- / 943.583	- / 103.941	- / 165.655	- / 198.229	- / 0.000	- / 198.229
P-3a	5 / AESA/AN-APG-65/AN-APG-73 (OSIP 002-07) (AVIONICS UPGRADE)				- / 1,406.208	- / 34.988	- / 36.443	- / 51.964	- / 0.000	- / 51.964
P-3a	6 / EW Unique (OSIP 021-08) (Capability Improvements)				- / 363.811	- / 15.265	- / 12.664	- / 3.711	- / 0.000	- / 3.711
P-3a	7 / Network Centric Operations: (OSIP 001-10) (Avionics Upgrade)				- / 406.414	- / 38.862	- / 70.097	- / 77.782	- / 0.000	- / 77.782
P-3a	8 / Priority Stores Integration (OSIP 10-16) (CAPABILITY IMPROVEMENT)				- / 66.319	- / 13.359	- / 15.983	- / 10.373	- / 0.000	- / 10.373
P-3a	9 / Physiological Episode (PE) Mitigation (OSIP 13-19) (Safety)				- / 167.675	- / 33.620	- / 50.432	- / 49.442	- / 0.000	- / 49.442
P-3a	10 / Communication Systems (OSIP 11-21) (Capability Improvement)				- / 25.070	- / 42.961	- / 42.695	- / 78.957	- / 0.000	- / 78.957
P-3a	11 / EOIR Modernization (OSIP 003-24) (CAPABILITY IMPROVEMENTS AND MODERNIZATION)				- / 0.000	- / 0.000	- / 0.000	- / 112.507	- / 0.000	- / 112.507
P-3a	12 / Inactive OSIPs (TBD)				- / 8,470.045	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000
P-40	Total Gross/Weapon System Cost				- / 13,529.267	- / 327.000	- / 461.118	- / 640.236	- / 0.000	- / 640.236

Exhibits Schedule					FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	1 / Joint Helmet Mounted Cueing System (JHMCS) (OSIP 24-00) (CAPABILITY IMPROVEMENT)				- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 319.245
P-3a	2 / Advanced Targeting Forward Looking Infrared (ATFLIR) (OSIP 12-01) (CAPABILITY IMPROVEMENTS)				- / 2.839	- / 0.940	- / 0.155	- / 0.178	- / 1.747	- / 1,042.150
P-3a	3 / F/A-18C/D/E/F and EA-18G Training System (OSIP 006-02) (TRAINERS UPGRADE)				- / 96.627	- / 72.989	- / 75.580	- / 81.770	- / 150.290	- / 970.286
P-3a	4 / Core Avionics Improvements / Upgrades (OSIP 023-04) (Capability and Reliability Improvements)				- / 261.504	- / 288.513	- / 330.985	- / 352.246	- / 1,298.639	- / 3,943.295
P-3a	5 / AESA/AN-APG-65/AN-APG-73 (OSIP 002-07) (AVIONICS UPGRADE)				- / 90.942	- / 83.324	- / 92.284	- / 92.582	- / 231.039	- / 2,119.774
P-3a	6 / EW Unique (OSIP 021-08) (Capability Improvements)				- / 12.347	- / 202.323	- / 223.699	- / 345.122	- / 498.358	- / 1,677.300
P-3a	7 / Network Centric Operations: (OSIP 001-10) (Avionics Upgrade)				- / 58.169	- / 48.786	- / 73.857	- / 85.787	- / 491.538	- / 1,351.292
P-3a	8 / Priority Stores Integration (OSIP 10-16) (CAPABILITY IMPROVEMENT)				- / 10.027	- / 9.322	- / 9.506	- / 9.739	- / 33.461	- / 178.089

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Exhibit P-40, Budget Line Item Justification: PB 2024 Navy **Date:** March 2023

Appropriation / Budget Activity / Budget Sub Activity:
1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft

P-1 Line Item Number / Title:
0525 / F-18 Series

ID Code (A=Service Ready, B=Not Service Ready): A **Program Elements for Code B Items:** N/A **Other Related Program Elements:** N/A

Line Item MDAP/MAIS Code: 000

Exhibits Schedule					FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	9 / Physiological Episode (PE) Mitigation (OSIP 13-19) (Safety)				- / 36.425	- / 36.744	- / 37.326	- / 37.543	- / 38.451	- / 487.658
P-3a	10 / Communication Systems (OSIP 11-21) (Capability Improvement)				- / 77.997	- / 80.864	- / 114.109	- / 105.283	- / 215.344	- / 783.280
P-3a	11 / EOIR Modernization (OSIP 003-24) (CAPABILITY IMPROVEMENTS AND MODERNIZATION)				- / 77.751	- / 129.810	- / 111.497	- / 43.447	- / 30.030	- / 505.042
P-3a	12 / Inactive OSIPs (TBD)				- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 8,470.045
P-40	Total Gross/Weapon System Cost				- / 724.628	- / 953.615	- / 1,068.998	- / 1,153.697	- / 2,988.897	- / 21,847.456

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

Justification:

The overall goal of the modifications budgeted in FY 2024 is to implement commonality/capability and structural safety and reliability improvements.

OSIP 24-00 Joint Helmet Mounted Cueing System (JHMCS) is a multi-service system that provides United States Air Force (USAF), United States Navy (USN), and United States Marine Corps (USMC) aircraft the capability to cue and verify onboard weapons and weapons sensors to a specific azimuth/elevation and to confirm sensor line-of-sight. The intent is to reduce tasks required of aircrews, verify seeker/sensor position, and enhance weapons employment opportunities.

OSIP 12-01 Advanced Targeting Forward Looking Infrared (ATFLIR) provides F/A-18 A+/C/D/E/F and EA-18G aircraft with the ability to detect, track, and engage air and ground targets, at extended ranges, using the infrared and visible light spectrums. Changes in F/A-18 air-to-air employment and continual improvements to air-to-ground standoff/precision strike weapons necessitate increased pod performance and reliability to support longer required detection/engagement distances.

OSIP 06-02 F/A-18C/D/E/F and EA-18G Training System supports compliance with fleet readiness and training requirements. These requirements mandate that training systems be concurrent with aircraft hardware, software, and system capabilities.

OSIP 23-04 Core Avionics supports retrofit upgrades, mitigation of obsolescence issues, and improvements to various avionics systems that have been, or are being, incorporated into fleet aircraft. This OSIP provides updates to the Automated Maintenance Environment (AME) and the integrated electronic technical manuals, and provides mission planning updates.

OSIP 02-07 AESA/AN-APG-65/AN-APG-73 includes recurring and non-recurring efforts for reliability and operational safety improvements to, as well as obsolescence mitigation for, the APG-65 and APG-73 radars and associated software requirements.

OSIP 21-08 EW Unique supports required safety of flight modifications, addresses obsolescence issues, and incorporates system improvements for all electronic warfare-unique requirements, to include hardware and software modifications.

OSIP 01-10 Network Centric Operations will implement a common configuration of network centric capability across all F/A-18 and EA-18G aircraft.

OSIP 10-16 Priority Stores facilitates aircraft capability upgrades to carry priority stores for F/A-18A-F and EA-18G aircraft. Priority Stores Integration contains fleet-required air to air and air to ground weapon configuration upgrades to support fleet requirements. This OSIP also provides for F/A-18A-F and EA-18G aircraft weapon systems software and aeromechanical hardware upgrades needed during fleet operations to ensure that mission readiness and safety of flight regimes are maintained.

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Exhibit P-40, Budget Line Item Justification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft		P-1 Line Item Number / Title: 0525 / F-18 Series
ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
Line Item MDAP/MAIS Code: 000		
<p>OSIP 13-19 Physiological Episodes (PE) supports the mitigation of aircrew Physiological Episodes (PE) in F/A-18 and E/A-18G by correcting aircraft deficiencies in aircrew life support systems, and addressing safety and reliability issues.</p> <p>OSIP 11-21 Communication Systems supports AN/ARC-210 Receiver Transmitters (RTs), Link 16, TACAN, Beyond Line of Sight (BLOS) capabilities and Tactical Targeting Network Technology (TTNT) integrated with the F/A-18 weapon system. These communication systems operate with standard United States Marine Corps, United States Navy, and United States Air Force digital communications devices to facilitate close air support, deep air strike, and tactical air control missions.</p> <p>OSIP 03-24 Electro-Optical and Infrared (EOIR) Modernization provides F/A-18 E/F aircraft with the ability to detect, track, and engage air and ground targets, at extended ranges, using the infrared and visible light spectrums.</p> <p>LI 0525 was restructured in FY2021 in order to provide greater transparency of F-18 series modifications. OSIPs 11-99, 21-00, & 10-21 can be found in LI-0502 for FY2021 and out. OSIPs 11-10, 11-13, 14-03, & 20-14 can be found in LI-0505 for FY2021 and out. OSIPs 04-14 can be found in LI-0515 for FY2021 and out.</p>		

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0525 / F-18 Series	Modification Number / Title: 1 / Joint Helmet Mounted Cueing System (JHMCS) (OSIP 24-00)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	316.582	1.058	1.605	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	319.245
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	316.582	1.058	1.605	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	319.245
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	316.582	1.058	1.605	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	319.245

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The Joint Helmet-Mounted Cueing System (JHMCS) is a multi-service system that provides United States Air Force (USAF), United States Navy (USN), and United States Marine Corps aircraft the capability to cue and verify on-board weapons and weapons sensors to a specific azimuth/elevation determined by the pilot's head position and to confirm sensor line-of-sight. The intent is to reduce tasks required of aircrews, verify seeker/sensor position, and enhance weapons employment opportunities. The JHMCS incorporates an ejection-compatible helmet-mounted display system, with capability to cue and verify cueing of high off-axis sensors and weapons, on USAF and USN single seat and two seat fighter aircraft. JHMCS night vision cueing and display will provide the ability to cue and display weapons and sensors at night through the initial fielding of a narrow field of view night vision device that integrates the JHMCS cueing and display symbology. SJU-17B Navy Aircrew Common Ejection Seat (NACES), cockpit video recording system and tactical aircraft moving map capability digital map computer are required for retrofit installation of JHMCS. This OSIP also provides for the upgrade modification of SJU-17A NACES, and the replacement of SJU-5 ejection seats with retrofit SJU-17B NACES for Lot 12 F/A-18C aircraft. Installation of Aft Seat JHMCS capability for Lot 23-25 F/A-18F will be performed concurrent with the upgrade retrofit installation of the Type 2 Advanced Mission Computer (AMC) and the Solid State Recorder (SSR) in OSIP 23-04.

This OSIP has been extended through FY23 in order to accommodate installation schedule changes resulting from aircraft availability.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

All developmental milestones have been completed. ECP-570R4 has completed its final aircraft integration milestones. AFC-400 Rev A for Lot 12 F/A-18C completed validation/verification and retrofit installation began in 2015. Retrofit installations for Lot 23-25 F/A-18F began in 2016 and will continue through 2023 concurrent with Type 2 AMC and SSR (OSIP 23-04).

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Exhibit P-3a, Individual Modification: PB 2024 Navy										Date: March 2023			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0525 / F-18 Series					Modification Number / Title: 1 / Joint Helmet Mounted Cueing System (JHMCS) (OSIP 24-00)			
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: F/A-18 and EA-18G			Modification Type: CAPABILITY IMPROVEMENT				Related RDT&E PEs:						
Financial Plan <small>(*) Indicates the modification is being installed organically and no installation funds are required.</small>	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total	
	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	
Procurement													
1.1.1) C/D A-Kit - NonOrganic Installation 1 of 1	362 / 33.633	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	362 / 33.633	
1.1.2) E/F A-Kit - NonOrganic Installation 1 of 1	178 / 16.609	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	178 / 16.609	
1.1.3) A-Kits Archive - Organic ^(*)	1,141 / 4.924	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1,141 / 4.924	
1.2.1) Installation Kits N/R - Organic ^(*)	- / 18.832	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 18.832	
2.1.1) B-Kits Archive - Organic ^(*)	3,470 / 112.483	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3,470 / 112.483	
2.2.1) Installation Equipment N/R - Organic ^(*)	- / 1.281	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.281	
2.2.2) 27C SCS - Organic ^(*)	- / 0.022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.022	
Subtotal: Procurement	- / 187.784	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 187.784	
Support													
3.1) Engineering Change Orders	- / 0.794	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.794	
3.2) Data	- / 6.508	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 6.508	
3.3) Support Equipment	174 / 19.585	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	174 / 19.585	
3.4) ILS	- / 23.415	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 23.415	
3.5) Other Support	- / 16.075	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 16.075	
Subtotal: Support	- / 66.377	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 66.377	
Installation													
Installation 1 of 1: GRP: JHMCS Installs	- / 62.421	- / 1.058	- / 1.605	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 65.084	
Subtotal: Installation	- / 62.421	- / 1.058	- / 1.605	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 65.084	
Total													
Total Cost (Procurement + Support + Installation)	316.582	1.058	1.605	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	319.245	

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0525 / F-18 Series	Modification Number / Title: 1 / Joint Helmet Mounted Cueing System (JHMCS) (OSIP 24-00)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Installation 1 of 1: GRP: JHMCS Installs

Manufacturer Information

Manufacturer Name: Not Specified. ⁽¹⁾	Manufacturer Location: Not Specified..
Administrative Leadtime (in Months): 0	Production Leadtime (in Months): 0

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates							
Delivery Dates							

Installation Information

Method of Implementation: Navy Field Mod Team:: Installation Name: JHMCS Installs

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	501 / 62.421	21 / 1.058	18 / 1.605	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	540 / 65.084
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	501 / 62.421	21 / 1.058	18 / 1.605	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	540 / 65.084

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	501	5	6	5	5	4	5	5	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Out	501	5	6	5	5	4	5	5	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Footnotes:
⁽¹⁾ Install costs vary due to significant differences in work required by type/model/series and location performed. Labor rates vary depending upon whether work is performed Continental United States (CONUS) or Outside Continental United States (OCONUS).

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0525 / F-18 Series	Modification Number / Title: 2 / Advanced Targeting Forward Looking Infrared (ATFLIR) (OSIP 12-01)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	999.399	10.453	21.449	4.990	0.000	4.990	2.839	0.940	0.155	0.178	1.747	1,042.150
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	999.399	10.453	21.449	4.990	0.000	4.990	2.839	0.940	0.155	0.178	1.747	1,042.150
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	999.399	10.453	21.449	4.990	0.000	4.990	2.839	0.940	0.155	0.178	1.747	1,042.150

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The Advanced Targeting Forward Looking Infrared (ATFLIR) pod (Operational Requirements Document# 700-88-06) provides F/A-18 and E/A-18G aircraft with the ability to detect, track, and engage air and ground targets, at extended ranges, using the infrared and visible light spectrums. Changes in F/A-18 air-to-air employment and continual improvements to air-to-ground standoff/precision strike weapons necessitate increased pod performance and reliability to support longer required detection/engagement distances. This Operational, Safety and Improvement Program (OSIP) supports efforts which addressed piece part obsolescence mitigation/avoidance in addition to examining/incorporating potential ATFLIR-related performance upgrades associated with network centric operations, interoperability and evolving electro-optic targeting capability requirements. Tracking/targeting improvements are being incorporated into the ATFLIR Operational Flight Profile (OFP) currently identified as 15X-530 with subsequent variants to be fielded. ATFLIR Rover Data Link (ARDL) modernization efforts include an encrypted, multi-band digital datalink (hardware/software) to better support network centric operations and the sharing of ATFLIR system imagery with forward air controllers to support the identification and prosecution of targets.

EOIR Modernization efforts move to OSIP 03-24 for FY2024 and out. OSIP 03-24 was established in FY2024 in order to provide greater transparency of EOIR Modernization efforts.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

ATFLIR development began in FY1997. Full rate production approval was given in October 2003. Full Operational Capability was met in July 2010. Motion Compensation and Electro-Optical Daylight Operations Improvement upgrades commenced completed in December 2019. Laser improvement study (RDTE funded) which completed in FY 2018 will result in a future ECP to modify the laser receiver and laser transmitter/receiver firmware providing for more reliable laser performance with reduced maintenance and less off-wing time.

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Exhibit P-3a, Individual Modification: PB 2024 Navy										Date: March 2023				
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0525 / F-18 Series					Modification Number / Title: 2 / Advanced Targeting Forward Looking Infrared (ATFLIR) (OSIP 12-01)				
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:							
Models of Systems Affected: F/A-18A+/C/D/E/F				Modification Type: CAPABILITY IMPROVEMENTS				Related RDT&E PEs:						
Financial Plan		Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total	
(*) Indicates the modification is being installed organically and no installation funds are required.		Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement														
1.1.1) ARDL (A5, A6) Kits (ECP 6342) - NonOrganic Installation 1 of 2		472 / 1.527	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	472 / 1.527	
1.1.2) ARDL (A3, A4, A8, A9) Kits (ECP 6342) - NonOrganic Installation 1 of 2		974 / 8.437	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	974 / 8.437	
1.1.3) ARDL Hardware Lot 40 - Organic ^(*)		- / -	- / -	5 / 0.045	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	5 / 0.045	
1.1.4) ARDL Hardware Lot 41 - Organic ^(*)		- / -	- / -	14 / 0.130	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	14 / 0.130	
1.1.5) ARDL Hardware Lot 42 - Organic ^(*)		- / -	- / -	23 / 0.219	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	23 / 0.219	
1.2.1) Installation Kits N/R - Organic ^(*)		- / 5.861	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 5.861	
2.1.1) ATFLIR EOSU ECP10 - RTOC - NonOrganic Installation 2 of 2		419 / 18.472	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	419 / 18.472	
2.1.2) EOIR Modernization Upgrade - NonOrganic ⁽²⁾ Installation 2 of 2		2 / 4.035	2 / 4.116	7 / 14.693	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	11 / 22.844	
2.1.3) ATFLIR ECP 0045 CCA - Organic ^(*)		- / -	20 / 1.900	20 / 1.940	20 / 1.980	- / -	20 / 1.980	20 / 2.020	- / -	- / -	- / -	- / -	80 / 7.840	
2.1.4) B-Kits Archive - Organic ^(*)		- / 546.089	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 546.089	
2.2.1) Installation Equipment N/R - Organic ^(*)		- / 100.447	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 100.447	
2.2.2) H-14 SCS - Organic ^(*)		- / 7.214	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 7.214	
2.2.3) H16 SCS - Organic ^(*)		- / 1.978	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.978	
2.2.4) Software - Organic ^(*)		- / 5.828	- / 1.665	- / 1.762	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 9.255	
Subtotal: Procurement		- / 699.888	- / 7.681	- / 18.789	- / 1.980	- / -	- / 1.980	- / 2.020	- / -	- / -	- / -	- / 0.000	- / 730.358	
Support														
3.1) Engineering Change Orders		- / 94.710	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 94.710	
3.2) Data		- / 8.591	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 8.591	
3.3) Training Equipment		- / 14.315	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 14.315	
3.4) Support Equipment		- / 186.070	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 186.070	
3.5) ILS		- / 174.433	- / 0.164	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 174.597	
3.6) Other Support		- / 120.332	- / 1.675	- / 1.708	- / 0.742	- / -	- / 0.742	- / 0.777	- / 0.896	- / 0.139	- / 0.161	- / -	- / 26.430	
3.7) Prior Year Kit Installations		504 / 3.018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	504 / 3.018	
Subtotal: Support		- / 291.469	- / 1.839	- / 1.708	- / 0.742	- / -	- / 0.742	- / 0.777	- / 0.896	- / 0.139	- / 0.161	- / 0.000	- / 297.731	
Installation														
Installation 1 of 2: GRP: ARDL		- / 6.171	- / 0.040	- / 0.041	- / 0.041	- / 0.000	- / 0.041	- / 0.042	- / 0.044	- / 0.016	- / 0.017	- / 1.747	- / 8.159	

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0525 / F-18 Series	Modification Number / Title: 2 / Advanced Targeting Forward Looking Infrared (ATFLIR) (OSIP 12-01)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Models of Systems Affected: F/A-18A+/C/D/E/F	Modification Type: CAPABILITY IMPROVEMENTS	Related RDT&E PEs:
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Financial Plan <small>(* Indicates the modification is being installed organically and no installation funds are required.)</small>	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>
Installation 2 of 2: GRP: ATFLIR	- / 1.871	- / 0.893	- / 0.911	- / 2.227	- / 0.000	- / 2.227	- / -	- / -	- / -	- / -	- / 0.000	- / 5.902
<i>Subtotal: Installation</i>	- / 8.042	- / 0.933	- / 0.952	- / 2.268	- / -	- / 2.268	- / 0.042	- / 0.044	- / 0.016	- / 0.017	- / 1.747	- / 14.061
Total												
Total Cost (Procurement + Support + Installation)	999.399	10.453	21.449	4.990	0.000	4.990	2.839	0.940	0.155	0.178	1.747	1,042.150

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0525 / F-18 Series	Modification Number / Title: 2 / Advanced Targeting Forward Looking Infrared (ATFLIR) (OSIP 12-01)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Installation 1 of 2: GRP: ARDL

Manufacturer Information

Manufacturer Name: CKA ⁽³⁾	Manufacturer Location: Orange park, Fl
Administrative Leadtime (in Months): 0	Production Leadtime (in Months): 0

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates							
Delivery Dates							

Installation Information

Method of Implementation: Navy Field Mod Team:: Installation Name: ARDL

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	1,170 / 6.171	6 / 0.040	6 / 0.041	6 / 0.041	0 / 0.000	6 / 0.041	6 / 0.042	6 / 0.044	6 / 0.016	6 / 0.017	234 / 1.747	1,446 / 8.159
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	1,170 / 6.171	6 / 0.040	6 / 0.041	6 / 0.041	0 / 0.000	6 / 0.041	6 / 0.042	6 / 0.044	6 / 0.016	6 / 0.017	234 / 1.747	1,446 / 8.159

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	1,170	1	2	3	-	-	3	3	-	-	3	3	-	-	3	3	-	-	3	3	-	-	3	3	-	-	3	3	-	234	1,446
Out	1,170	1	2	3	-	-	3	3	-	-	3	3	-	-	3	3	-	-	3	3	-	-	3	3	-	-	3	3	-	234	1,446

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0525 / F-18 Series	Modification Number / Title: 2 / Advanced Targeting Forward Looking Infrared (ATFLIR) (OSIP 12-01)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Installation 2 of 2: GRP: ATFLIR

Manufacturer Information

Manufacturer Name: Raytheon	Manufacturer Location: Indianapolis, IN
Administrative Leadtime (in Months): 0	Production Leadtime (in Months): 0

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates							
Delivery Dates							

Installation Information

Method of Implementation: Navy Drive In Mod:: Installation Name: ATFLIR

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	323 / 1.871	50 / 0.893	48 / 0.287	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	421 / 3.051
FY 2022	- / -	- / -	2 / 0.624	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	2 / 0.624
FY 2023	- / -	- / -	- / -	7 / 2.227	0 / 0.000	7 / 2.227	- / -	- / -	- / -	- / -	0 / 0.000	7 / 2.227
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	323 / 1.871	50 / 0.893	50 / 0.911	7 / 2.227	0 / 0.000	7 / 2.227	- / -	- / -	- / -	- / -	0 / 0.000	430 / 5.902

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot	
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4			
In	323	14	12	12	12	14	12	12	12	2	2	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	430
Out	323	14	12	12	12	14	12	12	12	2	2	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	430

Footnotes:

- (2) CE 2.1.2 Procurement continues in OSIP 03-24 in FY2024 and outyears
- (3) The installation of ARDL (A3, A4, A8, A9) kits has been delayed due to aircraft availability based on the requirements needed to train and prepare for deployment.

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0525 / F-18 Series	Modification Number / Title: 3 / F/A-18C/D/E/F and EA-18G Training System (OSIP 006-02)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	364.161	32.493	44.095	52.281	0.000	52.281	96.627	72.989	75.580	81.770	150.290	970.286
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	364.161	32.493	44.095	52.281	0.000	52.281	96.627	72.989	75.580	81.770	150.290	970.286
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	364.161	32.493	44.095	52.281	0.000	52.281	96.627	72.989	75.580	81.770	150.290	970.286

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

F/A-18C-F and EA-18G training system funds will be used to meet current fleet readiness squadrons and fleet training and readiness requirements. These requirements mandate that the training systems be concurrent with the aircraft hardware, software, and system capabilities. New components and software will be procured to prevent obsolescence of the various trainers throughout the service life of the platform. Funding will also be used to update courseware, computer based training, and maintenance trainers as Engineering Change Proposals (ECPs) are performed on the aircraft. Funds will be used to increase the simulation fidelity of any aircraft driven changes, implement these changes across a distributed architecture, and synthesize these changes into the simulated threat environment. Funds will also be used to enable live, virtual and constructive (LVC) training; linking aircrew training devices and synthetic injects with aircraft flying on live ranges. Funds will also provide rapid technology insertion upgrades to TOFTs and LVC devices to accommodate shifts in technology. Current trainer inventory is 27 maintenance trainers with 18 devices for F/A-18E/F and EA-18G and 9 devices for F/A-18C/D; and 72 aircrew training devices and 110 aircrew cockpits with 48 devices and 81 cockpits for F/A-18E/F and EA-18G and 24 devices and 29 cockpits for F/A-18C/D.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: Trainers were procured with APN-1 funding and are modified with ECPs as required.

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0525 / F-18 Series	Modification Number / Title: 3 / F/A-18C/D/E/F and EA-18G Training System (OSIP 006-02)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
Models of Systems Affected: F/A-18C/D/E/F and EA-18G	Modification Type: TRAINERS UPGRADE
Related RDT&E PEs:	

Financial Plan <small>(* Indicates the modification is being installed organically and no installation funds are required.)</small>	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Procurement												
1.1.1) Installation Kits N/R - Organic ⁽¹⁾	- / 0.001	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.001
Subtotal: Procurement	- / 0.001	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 0.001
Support												
2.1) Training Equipment ⁽⁴⁾	- / 362.044	- / 32.339	- / 43.938	- / 52.120	- / -	- / 52.120	- / 96.463	- / 72.822	- / 75.410	- / 81.596	- / 149.931	- / 966.663
2.2) ILS	- / 1.411	- / 0.154	- / 0.157	- / 0.161	- / -	- / 0.161	- / 0.164	- / 0.167	- / 0.170	- / 0.174	- / 0.359	- / 2.917
2.3) Other Support	- / 0.705	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.705
Subtotal: Support	- / 364.160	- / 32.493	- / 44.095	- / 52.281	- / -	- / 52.281	- / 96.627	- / 72.989	- / 75.580	- / 81.770	- / 150.290	- / 970.285
Installation												
Subtotal: Installation	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total												
Total Cost (Procurement + Support + Installation)	364.161	32.493	44.095	52.281	0.000	52.281	96.627	72.989	75.580	81.770	150.290	970.286

Footnotes:
⁽⁴⁾ CE 2.1 FY 2024 increase in Training Equipment due to integration of multiple ECPs into aircrew and maintenance training devices. An increase in the amount of fielded trainers drives additional retrofit costs to integrate and verify these training capabilities.

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0525 / F-18 Series	Modification Number / Title: 4 / Core Avionics Improvements / Upgrades (OSIP 023-04)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	943.583	103.941	165.655	198.229	0.000	198.229	261.504	288.513	330.985	352.246	1,298.639	3,943.295
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	943.583	103.941	165.655	198.229	0.000	198.229	261.504	288.513	330.985	352.246	1,298.639	3,943.295
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	943.583	103.941	165.655	198.229	0.000	198.229	261.504	288.513	330.985	352.246	1,298.639	3,943.295

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

This Operational, Safety and Improvement Program (OSIP) is required to retrofit upgrades, manage obsolescence issues, and improvements and modifications to various avionics systems that have been or are being incorporated into fleet F/A-18E/F & EA-18G aircraft. This OSIP also addresses aircraft mission computer System Configuration Set (SCS) Operational Flight Program (OFP) modifications and associated engineering and logistics elements, software modernization efforts and tools, Crypto modifications mandates for aircraft subsystems and associated weapons interfaces, and Security Engineering that includes Cyber and Information Assurance tasks. This OSIP also provides updates to Automated Maintenance Environment (AME) and the integrated electronic technical manuals, and to provide mission planning updates. Specifically for mission planning, the F/A-18 and Airborne Electronic Attack (AEA) Unique Planning Components (UPC) for the Joint Mission Planning System (JMPS) must implement frequent software changes in conjunction with aircraft modifications. The SCS modifications utilize a Scaled Agile Framework (SAFe) software lifecycle model that provides rapid fleet deliveries with multiple releases every year. JMPS and Airborne Electronic Attack (AEA) UPC changes required in conjunction with System Configuration Set (SCS) changes must include software regression tests to ensure proper operation and integration with other aircraft systems in JMPS components, and the core mission planning equipment and software procured elsewhere within the Navy budget.

Upgrades include replacement of the Hi-8mm video tape recorder with a retrofit of Solid State Recorder (SSR) (ECP-1146-12 and ECP-6212R1) into United States Navy and Marine Corps Lot 4-25 F/A-18A+/B/C/D/E/F aircraft. Installation of the Cockpit Video Recording System (CVRS) is a mandatory pre-requisite for the SSR upgrade for F/A-18C/D. This OSIP includes the retrofit completion of the CVRS in unmodified F/A-18C/D aircraft. Upgrades also include replacement of the black and white Heads Up Display (HUD) camera with a retrofit of a color HUD camera (ECP-6491) to address technology obsolescence and configuration differences introduced by the Joint Helmet Mounted Cueing System (JHMCS) in Lot 4-11 F/A-18A-D aircraft (Lot 7-9 F/A-18A++ will require wiring modification). Installation of the SSR for Lots 23-24 F/A-18E/F (ECP-6212R1) will be performed concurrent with the upgrade retrofit installation of the Type 2 Advanced Mission Computer (AMC) and the JHMCS in OSIP 24-00.

This OSIP includes replacement of the AN/AVQ-36 Head-Up Display (HUD) and the entire Block 2 F/A-18E/F and EA-18G display suite (5x5 and 8x10 Advanced Multipurpose Displays (AMPD), Multipurpose Color Display Replacement (MPCDR), Up Front Control Display Replacement (UFCDR), and Engine Fuel Display Replacement (EFDR)) with the Advanced Cockpit System (ACS) into United States Navy Lot 26 and up F/A-18E/F and EA-18G aircraft to address technology obsolescence and increase display capability required for the Advanced Capability Mission Computer (ACMC). The ACS consists of a Low-Profile HUD (LPHUD), 10x19 Large Area Display (LAD) and Low-Profile Engine Fuel Display (LPEFD). This OSIP also includes replacement for the SSR/USSR with a High Speed Video Network (HSVN) Digital Video Recorder (HDVR) (ECP-TBD) into United States Navy Lot 23 and up F/A-18E/F and EA-18G aircraft to address technology obsolescence and include Cyber Security Information Assurance through Type-1 data encryption capability. HDVR is required for installation of the ACS. Upgrades also include the Digital Video Mapping Computer (DVMC) which will provide additional graphics processing required by the ACS. HDVR and DVMC retrofit is being planned for Organizational level installation with no Depot labor requirements.

This OSIP also includes a requirement to retrofit the Deployable Flight Incident Recorder Set (DFIRS) (ECP-6273) to address component obsolescence including the search and rescue satellite aided tracking beacon. Upgrades include an F/A-18 retrofit installation of the AMC (ECP-6267R1) as a replacement for the AYK-14 computer. Upgrade includes Store Management Processor (SMP) AVC 5506 incorporation

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0525 / F-18 Series	Modification Number / Title: 4 / Core Avionics Improvements / Upgrades (OSIP 023-04)
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:
<p>required to support ECP-6267R1. Upgrade includes a retrofit installation of the Advanced Capability Mission Computer (ACMC) (ECP-6459, ECP-6459C1) into EA-18G aircraft. Upgrades include a retrofit of the Fiber Channel Network Switch-24 (FCNS-24) (ECP-6456, ECP-6456C1) into EA-18G aircraft. Upgrades also include retrofit installation of various display hardware improvements to enable increased aircrew situational awareness such as replacement of the Multipurpose Color Display (MPCD) with MPCD Replacement (MPCDR) (ECP-6220, ECP-6220C2, and ECP-6220C3) to meet hardware requirement for OFP display improvements.</p> <p>Upgrades include retrofit of USMC F/A-18C/D aircraft with the ACMC, display upgrades including the left/right 5x5 advanced multi-purpose display, up-front control display-replacement, and MPCDR, stores management system upgrades, DTU and associated software and engineering requirements. Efforts include Upgrades of Type 2 and Type 3 Advanced Mission Computers (AMC) to meet increased OFP processing throughput requirements, including adding a 4th Processor Card to Type III AMC. The efforts will include integration of the hardware and the software as well as the Integrated Logistics Support (ILS) products.</p> <p>The procurement of SCS represents the collection of software and hardware modifications that form a single, integrated aircraft software operational load. The SCS builds anticipated are used to support retrofit hardware and software configuration changes and associated testing driven by the Aircraft Procurement, Navy 5 (APN-5) funded OSIPs. SCS integration will comprise of OFP, recurring and non-recurring engineering associated with incremental software releases, emergent and rapid fleet driven improvements and/or integration efforts, Naval Integrated Fire Control - Counter Air (NIFC-CA) required interoperability modifications, Link 16 Inject modifications, support equipment and simulation equipment test program sets updates, operational analysis and functional retrofit implementation of aircrew and maintenance training systems, OFP memory loader verifier set personal computer memory card international association cards, and update of SCS to allow single point loading of software from the advanced memory unit or digital memory device and associated software licenses and data rights and publication updates.</p> <p>This Operational, Safety and Improvement Program (OSIP) will cover F/A-18 and EA-18G Automated Maintenance Environment (AME), which includes initial procurement of software licenses, data rights, and technical publication updates including Integrated Electronic Technical Manuals (IETMs). Modifications incorporated for AME integration are authorized via associated SCS software builds, SPAWAR Program Of Record (POR) Acquisition Decision Memorandums, and Engineering Change Proposals (ECPs).</p> <p>The miniaturized airborne Global Positioning System (GPS) receiver retrofit implements an advanced GPS that increases platform navigation accuracy and smart weapon targeting solutions. This OSIP will implement a Precision Approach and Landing Capability (PALC) that will provide an onboard precision approach capability in the event of adverse weather conditions. The PALC requirement can be met with either the Civilian Instrument Landing System (C-ILS) or the Wide Area Augmentation System (WAAS). Efforts include verifying and validating altimetry data related to the Reduced Vertical Separation Minimum (RVSM) mandate which reduces the vertical separation between aircraft flying between FL290 (29,000 ft.) and FL410 (41,000 ft.) inclusive, from 2000-ft minimum to 1000-ft minimum.</p> <p>DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: SSR (ECP-1146-12) installations are ongoing with final retrofits scheduled to be completed by FY 2023. SSR (ECP-6212R1), AMC Type 2 and SMP Upgrade installations are ongoing with final retrofits scheduled to be completed by FY 2023. HDVR development has been completed through Physical Configuration Audit through Block III Super Hornet production.</p>		

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Exhibit P-3a, Individual Modification: PB 2024 Navy										Date: March 2023			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0525 / F-18 Series						Modification Number / Title: 4 / Core Avionics Improvements / Upgrades (OSIP 023-04)			
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: F/A-18A-F and EA-18G				Modification Type: Capability and Reliability Improvements				Related RDT&E PEs:					
Financial Plan <small>(* Indicates the modification is being installed organically and no installation funds are required.)</small>	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
1.1.1) ECP-6212R1 F/A-18E SSR - NonOrganic <i>Installation 1 of 7</i>	42 / 1.566	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	42 / 1.566	
1.1.2) ECP-6212R1 F/A-18F SSR - NonOrganic ⁽⁵⁾ <i>Installation 1 of 7</i>	58 / 1.329	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	58 / 1.329	
1.1.3) ECP 1146-12 (SSR Hi8) AFC-630 Lot 12-21 C Kits - NonOrganic <i>Installation 1 of 7</i>	276 / 2.091	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	276 / 2.091	
1.1.4) ECP 1146-12 (SSR Hi8) AFC-631 Lot 12-21 D Kits - NonOrganic <i>Installation 1 of 7</i>	115 / 1.698	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	115 / 1.698	
1.1.5) ECP 1146-12 (SSR Hi8) AFC-633 Lot 18-22 E/F - NonOrganic <i>Installation 1 of 7</i>	32 / 1.287	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	32 / 1.287	
1.1.6) ECP 6380 A-kits - NonOrganic <i>Installation 1 of 7</i>	159 / 12.882	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	159 / 12.882	
1.1.7) Type 2 Advanced Mission Computer (AMC) kits (ECP 6267R1) - NonOrganic ⁽⁶⁾ <i>Installation 1 of 7</i>	62 / 5.221	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	62 / 5.221	
2.1.1) Stores Management Upgrade (SMUG) (ECP 6042) - NonOrganic <i>Installation 1 of 7</i>	59 / 1.878	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	59 / 1.878	
1.1.8) F/A-18E ACS (ECP-6516) BLK III - NonOrganic <i>Installation 2 of 7</i>	1 / 0.989	- / -	14 / 14.616	15 / 15.973	- / -	15 / 15.973	10 / 10.862	14 / 15.511	17 / 19.211	17 / 19.595	132 / 163.536	220 / 260.293	
1.1.9) F/A-18F ACS (ECP-6516) BLK III - NonOrganic <i>Installation 3 of 7</i>	1 / 1.349	- / -	11 / 15.906	11 / 16.224	- / -	11 / 16.224	10 / 15.044	11 / 16.880	18 / 28.174	13 / 20.754	83 / 141.286	158 / 255.617	
1.1.10) F/A-18 G ACS (ECP-6516) - NonOrganic <i>Installation 4 of 7</i>	1 / 1.356	- / -	24 / 19.025	24 / 19.393	- / -	24 / 19.393	24 / 19.781	24 / 20.180	24 / 20.580	24 / 20.991	17 / 15.165	162 / 136.471	
1.1.11) HDVR (ECP-6514) A-KIT - NonOrganic <i>Installation 5 of 7</i>	- / -	- / -	- / -	120 / 0.600	- / -	120 / 0.600	120 / 0.612	120 / 0.624	120 / 0.637	120 / 0.650	121 / 0.668	721 / 3.791	
1.1.12) Display Improvements (HW) DVMC-U Upgrade A-Kit - NonOrganic <i>Installation 6 of 7</i>	- / -	- / -	- / -	- / -	- / -	- / -	72 / 7.200	72 / 7.344	72 / 7.491	72 / 7.641	326 / 36.574	614 / 66.250	
2.1.2) Display Improvements (HW) DVMC-U Upgrade B-Kit - NonOrganic <i>Installation 6 of 7</i>	- / -	- / -	- / -	- / -	- / -	- / -	72 / 27.834	72 / 28.390	72 / 28.958	72 / 29.537	326 / 141.388	614 / 256.107	
1.1.13) A-Kits Archive - Organic ⁽⁷⁾	395 / 7.470	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	395 / 7.470	
1.2.1) Installation Kits N/R - Organic ⁽⁷⁾	- / 33.729	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 33.729	

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0525 / F-18 Series	Modification Number / Title: 4 / Core Avionics Improvements / Upgrades (OSIP 023-04)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Models of Systems Affected: F/A-18A-F and EA-18G	Modification Type: Capability and Reliability Improvements	Related RDT&E PEs:
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Financial Plan <small>(* Indicates the modification is being installed organically and no installation funds are required.)</small>	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
2.1.3) HDVR (ECP-6514) B-Kit - Organic ^(*)	5 / 0.442	116 / 6.669	120 / 7.037	120 / 7.178	- / -	120 / 7.178	120 / 7.321	120 / 7.468	120 / 7.617	- / -	- / -	721 / 43.732
2.1.4) ECP 6459 Advanced Capability Mission Computer (ACMC) - Organic ^(*)	137 / 105.440	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	137 / 105.440
2.1.5) ECP 6456 Fibre Channel Network Switch (FCNS-24) - Organic ^(*)	211 / 29.602	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	211 / 29.602
2.1.6) Type 3 Mission Computer 4th Processor - NonOrganic Installation 7 of 7	463 / 15.694	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	463 / 15.694
2.1.7) DFIRS - Organic ^(*)	- / -	- / -	72 / 6.742	72 / 6.877	- / -	72 / 6.877	72 / 7.014	72 / 7.154	72 / 7.297	72 / 7.443	4 / 0.422	436 / 42.949
2.1.8) Stores Management Set (SMS) Obsolescence - Organic ^{(*) (7)}	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 18.838	- / 18.321	- / 32.237	- / 45.621	- / 115.017
2.1.9) B-Kits Archive - Organic ^(*)	930 / 157.756	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	930 / 157.756
2.2.1) Installation Equipment N/R - Organic ^(*)	- / 37.341	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 37.341
2.2.2) MP/UPC Software - Organic ^(*)	- / 30.372	- / 5.000	- / 5.020	- / 5.110	- / -	- / 5.110	- / 5.202	- / 5.296	- / 5.402	- / 5.510	- / 29.248	- / 96.160
2.2.3) AME Software - Organic ^{(*) (8)}	- / 59.169	- / 18.028	- / 16.368	- / 18.735	- / -	- / 18.735	- / 19.110	- / 17.909	- / 26.606	- / 20.200	- / 107.099	- / 303.224
2.2.4) ALQ-214 JMPS UPC Software - Organic ^(*)	- / 27.689	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 27.689
2.2.5) SCS Software Modernization - Organic ^{(*) (9)}	- / 45.049	- / 8.238	- / 6.729	- / 17.030	- / -	- / 17.030	- / 15.561	- / 16.171	- / 16.320	- / 22.786	- / 31.653	- / 179.537
2.2.6) H16 (SCS) - Organic ^(*)	- / 42.501	- / 5.958	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 48.459
2.2.7) H18 (SCS) - Organic ^(*)	- / 17.442	- / 12.924	- / 12.589	- / 8.746	- / -	- / 8.746	- / -	- / -	- / -	- / -	- / -	- / 51.701
2.2.8) H20 (SCS) - Organic ^{(*) (10)}	- / 9.998	- / 8.648	- / 8.781	- / 13.680	- / -	- / 13.680	- / 13.960	- / -	- / -	- / -	- / -	- / 55.067
2.2.9) H22 (SCS) - Organic ^{(*) (11)}	- / -	- / -	- / -	- / 7.694	- / -	- / 7.694	- / 19.135	- / 12.600	- / -	- / -	- / -	- / 39.429
2.2.10) H24 (SCS) - Organic ^(*)	- / -	- / -	- / -	- / -	- / -	- / -	- / 20.140	- / 20.191	- / 21.582	- / 19.812	- / -	- / 81.725
2.2.11) H26 (SCS) - Organic ^(*)	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 14.212	- / 19.496	- / 30.150	- / 5.000	- / 68.858
Subtotal: Procurement	- / 651.340	- / 65.465	- / 112.813	- / 137.240	- / -	- / 137.240	- / 188.776	- / 208.768	- / 227.692	- / 237.306	- / 717.660	- / 2,547.060

Support												
3.1) Engineering Change Orders	- / 1.440	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.440
3.2) Data	- / 37.176	- / 10.425	- / 6.365	- / 6.492	- / -	- / 6.492	- / 6.622	- / 6.754	- / 6.889	- / 7.027	- / 37.302	- / 125.052
3.3) Training Equipment ⁽¹²⁾	- / 1.904	- / -	- / -	- / 17.128	- / -	- / 17.128	- / 17.270	- / 17.416	- / 11.564	- / 27.684	- / -	- / 62.966
3.4) Support Equipment	- / 10.222	- / 0.788	- / 0.802	- / 0.816	- / -	- / 0.816	- / 0.831	- / 0.846	- / 0.863	- / 0.878	- / 9.937	- / 25.983
3.5) ILS	- / 19.715	- / 1.397	- / 1.351	- / 1.378	- / -	- / 1.378	- / 1.405	- / 1.433	- / 1.462	- / 1.491	- / 22.980	- / 52.612

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0525 / F-18 Series	Modification Number / Title: 4 / Core Avionics Improvements / Upgrades (OSIP 023-04)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Models of Systems Affected: F/A-18A-F and EA-18G	Modification Type: Capability and Reliability Improvements	Related RDT&E PEs:
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Financial Plan <small>(* Indicates the modification is being installed organically and no installation funds are required.)</small>	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
3.6) Other Support	- / 199.667	- / 24.309	- / 17.992	- / 17.640	- / -	- / 17.640	- / 17.887	- / 18.247	- / 18.611	- / 19.439	- / 158.291	- / 492.083
3.7) Prior Year Install Costs	391 / 3.491	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	391 / 3.491
Subtotal: Support	- / 273.615	- / 36.919	- / 26.510	- / 33.454	- / -	- / 33.454	- / 34.015	- / 34.696	- / 39.389	- / 56.519	- / 228.510	- / 763.627

Installation												
Installation 1 of 7: GRP: GRP: Prior Year Inductions	- / 15.586	- / 1.494	- / 0.293	- / 0.058	- / 0.000	- / 0.058	- / 0.060	- / 0.061	- / 0.062	- / 0.063	- / 1.080	- / 18.757
Installation 2 of 7: F/A-18E ACS (ECP-6516) BLK III	- / 0.863	- / -	- / 12.570	- / 13.737	- / 0.000	- / 13.737	- / 9.341	- / 13.340	- / 16.522	- / 16.852	- / 140.645	- / 223.870
Installation 3 of 7: F/A-18F ACS (ECP-6516) BLK III	- / 1.177	- / -	- / 13.469	- / 13.740	- / 0.000	- / 13.740	- / 12.739	- / 14.293	- / 23.858	- / 17.574	- / 119.591	- / 216.441
Installation 4 of 7: F/A-18 G ACS (ECP-6516)	- / 0.586	- / -	- / -	- / -	- / -	- / -	- / 15.223	- / 15.528	- / 15.838	- / 16.155	- / 45.429	- / 108.759
Installation 5 of 7: HDVR (ECP-6514) A-KIT	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.350	- / 1.827	- / 1.864	- / 1.901	- / 4.430	- / 11.372
Installation 6 of 7: GRP: Display Improvements (HW) DVMC-U Upgrade	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 5.760	- / 5.876	- / 41.294	- / 52.930
Installation 7 of 7: Type 3 Mission Computer 4th Processor	- / 0.416	- / 0.063	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 0.479
Subtotal: Installation	- / 18.628	- / 1.557	- / 26.332	- / 27.535	- / -	- / 27.535	- / 38.713	- / 45.049	- / 63.904	- / 58.421	- / 352.469	- / 632.608

Total	943.583	103.941	165.655	198.229	0.000	198.229	261.504	288.513	330.985	352.246	1,298.639	3,943.295
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UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0525 / F-18 Series	Modification Number / Title: 4 / Core Avionics Improvements / Upgrades (OSIP 023-04)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Installation 1 of 7: GRP: GRP: Prior Year Inductions

Manufacturer Information

Manufacturer Name: Not Specified.	Manufacturer Location: Not Specified..
Administrative Leadtime (in Months): 0	Production Leadtime (in Months): 0

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates							
Delivery Dates							

Installation Information

Method of Implementation: Navy Field mod Team:: Installation Name: GRP: Prior Year Inductions

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	691 / 15.586	58 / 1.494	34 / 0.293	1 / 0.058	0 / 0.000	1 / 0.058	1 / 0.060	1 / 0.061	1 / 0.062	1 / 0.063	15 / 1.080	803 / 18.757
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	691 / 15.586	58 / 1.494	34 / 0.293	1 / 0.058	0 / 0.000	1 / 0.058	1 / 0.060	1 / 0.061	1 / 0.062	1 / 0.063	15 / 1.080	803 / 18.757

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot				
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4						
In	691	15	16	14	13	10	9	8	7	-	1	-	-	-	1	-	-	-	1	-	-	-	1	-	-	-	1	-	-	-	1	-	-	15	803
Out	691	15	16	14	13	10	9	8	7	-	1	-	-	-	1	-	-	-	1	-	-	-	1	-	-	-	1	-	-	-	1	-	-	15	803

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0525 / F-18 Series	Modification Number / Title: 4 / Core Avionics Improvements / Upgrades (OSIP 023-04)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Installation 2 of 7: F/A-18E ACS (ECP-6516) BLK III

Manufacturer Information

Manufacturer Name: Boeing - F/A-18E ACS	Manufacturer Location: St Louis
Administrative Leadtime (in Months): 3	Production Leadtime (in Months): 1

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates		Dec 2022	Dec 2023	Dec 2024	Dec 2025	Dec 2026	Dec 2027
Delivery Dates		Jan 2023	Jan 2024	Jan 2025	Jan 2026	Jan 2027	Jan 2028

Installation Information

Method of Implementation: Navy Drive In Modification:: Installation Name: F/A-18E ACS (ECP-6516) BLK III

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	1 / 0.863	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	1 / 0.863
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	14 / 12.570	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	14 / 12.570
FY 2024	- / -	- / -	- / -	15 / 13.737	0 / 0.000	15 / 13.737	- / -	- / -	- / -	- / -	0 / 0.000	15 / 13.737
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	10 / 9.341	- / -	- / -	- / -	0 / 0.000	10 / 9.341
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	14 / 13.340	- / -	- / -	0 / 0.000	14 / 13.340
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	17 / 16.522	- / -	0 / 0.000	17 / 16.522
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	17 / 16.852	0 / 0.000	17 / 16.852
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	132 / 140.645	132 / 140.645
Total	1 / 0.863	- / -	14 / 12.570	15 / 13.737	0 / 0.000	15 / 13.737	10 / 9.341	14 / 13.340	17 / 16.522	17 / 16.852	132 / 140.645	220 / 223.870

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	1	-	-	-	-	-	5	5	4	-	5	5	5	-	3	3	4	-	4	5	5	-	5	5	7	-	5	5	7	132	220
Out	1	-	-	-	-	-	5	5	4	-	5	5	5	-	3	3	4	-	4	5	5	-	5	5	7	-	5	5	7	132	220

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0525 / F-18 Series	Modification Number / Title: 4 / Core Avionics Improvements / Upgrades (OSIP 023-04)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Installation 3 of 7: F/A-18F ACS (ECP-6516) BLK III

Manufacturer Information

Manufacturer Name: Boeing - F/A-18F and EA-18G ACS	Manufacturer Location: St Louis
Administrative Leadtime (in Months): 3	Production Leadtime (in Months): 1

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates		Dec 2022	Dec 2023	Dec 2024	Dec 2025	Dec 2026	Dec 2027
Delivery Dates		Jan 2023	Jan 2024	Jan 2025	Jan 2026	Jan 2027	Jan 2028

Installation Information

Method of Implementation: Contractor Field Mod:: Installation Name: F/A-18F ACS (ECP-6516) BLK III

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	1 / 1.177	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	1 / 1.177
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	11 / 13.469	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	11 / 13.469
FY 2024	- / -	- / -	- / -	11 / 13.740	0 / 0.000	11 / 13.740	- / -	- / -	- / -	- / -	0 / 0.000	11 / 13.740
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	10 / 12.739	- / -	- / -	- / -	0 / 0.000	10 / 12.739
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	11 / 14.293	- / -	- / -	0 / 0.000	11 / 14.293
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	18 / 23.858	- / -	0 / 0.000	18 / 23.858
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	13 / 17.574	0 / 0.000	13 / 17.574
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	83 / 119.591	83 / 119.591
Total	1 / 1.177	- / -	11 / 13.469	11 / 13.740	0 / 0.000	11 / 13.740	10 / 12.739	11 / 14.293	18 / 23.858	13 / 17.574	83 / 119.591	158 / 216.441

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	1	-	-	-	-	-	5	3	3	-	3	4	4	-	3	3	4	-	3	4	4	-	6	6	6	-	4	4	5	83	158
Out	1	-	-	-	-	-	5	3	3	-	3	4	4	-	3	3	4	-	3	4	4	-	6	6	6	-	4	4	5	83	158

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0525 / F-18 Series	Modification Number / Title: 4 / Core Avionics Improvements / Upgrades (OSIP 023-04)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Installation 4 of 7: F/A-18 G ACS (ECP-6516)

Manufacturer Information

Manufacturer Name: Boeing - F/A-18F and EA-18G ACS	Manufacturer Location: St Louis
Administrative Leadtime (in Months): 2	Production Leadtime (in Months): 24

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates		Nov 2022	Nov 2023	Nov 2024	Nov 2025	Nov 2026	Nov 2027
Delivery Dates		Nov 2024	Nov 2025	Nov 2026	Nov 2027	Nov 2028	Nov 2029

Installation Information

Method of Implementation: Navy Drive In Modification:: Installation Name: F/A-18 G ACS (ECP-6516)

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	1 / 0.586	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	1 / 0.586
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	24 / 15.223	- / -	- / -	- / -	0 / 0.000	24 / 15.223
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	24 / 15.528	- / -	- / -	0 / 0.000	24 / 15.528
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	24 / 15.838	- / -	0 / 0.000	24 / 15.838
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	24 / 16.155	0 / 0.000	24 / 16.155
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	24 / 16.478	24 / 16.478
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	24 / 16.808	24 / 16.808
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	17 / 12.143	17 / 12.143
Total	1 / 0.586	- / -	- / -	- / -	- / -	- / -	24 / 15.223	24 / 15.528	24 / 15.838	24 / 16.155	65 / 45.429	162 / 108.759

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	1	-	-	-	-	-	-	-	-	-	-	-	-	2	6	8	8	2	8	7	7	2	8	7	7	2	8	7	7	65	162
Out	1	-	-	-	-	-	-	-	-	-	-	-	-	2	6	8	8	2	8	7	7	2	8	7	7	2	8	7	7	65	162

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0525 / F-18 Series	Modification Number / Title: 4 / Core Avionics Improvements / Upgrades (OSIP 023-04)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Installation 5 of 7: HDVR (ECP-6514) A-KIT

Manufacturer Information

Manufacturer Name: TBD	Manufacturer Location: TBD
Administrative Leadtime (in Months): 4	Production Leadtime (in Months): 12

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates			Jan 2024	Jan 2025	Jan 2026	Jan 2027	Jan 2028
Delivery Dates			Jan 2025	Jan 2026	Jan 2027	Jan 2028	Jan 2029

Installation Information

Method of Implementation: Navy Drive In Modification:: Installation Name: HDVR (ECP-6514) A-KIT

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	90 / 1.350	30 / 0.450	- / -	- / -	0 / 0.000	120 / 1.800
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	90 / 1.377	30 / 0.459	- / -	0 / 0.000	120 / 1.836
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	90 / 1.405	30 / 0.468	0 / 0.000	120 / 1.873
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	90 / 1.433	30 / 0.478	120 / 1.911
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	120 / 1.948	120 / 1.948
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	121 / 2.004	121 / 2.004
Total	- / -	- / -	- / -	- / -	- / -	- / -	90 / 1.350	120 / 1.827	120 / 1.864	120 / 1.901	271 / 4.430	721 / 11.372

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot	
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4			
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	271	721
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	271	721

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0525 / F-18 Series	Modification Number / Title: 4 / Core Avionics Improvements / Upgrades (OSIP 023-04)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Installation 6 of 7: GRP: Display Improvements (HW) DVMC-U Upgrade

Manufacturer Information

Manufacturer Name: TBD	Manufacturer Location: TBD
Administrative Leadtime (in Months): 3	Production Leadtime (in Months): 24

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates				Dec 2024	Dec 2025	Dec 2026	Dec 2027
Delivery Dates				Dec 2026	Dec 2027	Dec 2028	Dec 2029

Installation Information

Method of Implementation: Navy Field mod Team:: Installation Name: Display Improvements (HW) DVMC-U Upgrade

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	144 / 5.760	- / -	0 / 0.000	144 / 5.760
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	144 / 5.876	0 / 0.000	144 / 5.876
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	144 / 5.992	144 / 5.992
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	144 / 6.112	144 / 6.112
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	652 / 29.190	652 / 29.190
Total	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	144 / 5.760	144 / 5.876	940 / 41.294	1,228 / 52.930

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	36	36	36	36	36	36	36	36	940	1,228
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	36	36	36	36	36	36	36	36	940	1,228

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0525 / F-18 Series	Modification Number / Title: 4 / Core Avionics Improvements / Upgrades (OSIP 023-04)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Installation 7 of 7: Type 3 Mission Computer 4th Processor

Manufacturer Information

Manufacturer Name: TBD	Manufacturer Location: TBD
Administrative Leadtime (in Months): 0	Production Leadtime (in Months): 0

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates							
Delivery Dates							

Installation Information

Method of Implementation: Contractor Field Team:: Installation Name: Type 3 Mission Computer 4th Processor

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	403 / 0.416	60 / 0.063	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	463 / 0.479
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	403 / 0.416	60 / 0.063	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	463 / 0.479

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot			
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4					
In	403	30	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Out	403	30	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Footnotes:
⁽⁵⁾ CE 1.1.2 ECP-6212R1 installs were realigned to match concurrent install schedule with Type 2 AMC (ECP-6267R1). ECP-6212R1 (AFC-557) applies to E/F Lots 23-25, and is dependent upon Type II Mission Computer prerequisite install from ECP-6267R1 (AFC-507 Lot 25 and AFC-506 Lot 23-24). AFC-507 is complete for E/F. AFC-506 has experienced significant delays due to the complexity of the

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0525 / F-18 Series	Modification Number / Title: 4 / Core Avionics Improvements / Upgrades (OSIP 023-04)
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:
<p>aircraft modification. AFC-557 val/ver activity closed in FY14 enabling issuance of the technical directive to begin installs in Lot 25E/F. AFC-506 was released in FY15 for Lot 23-24 E/F and installs have been scheduled to coincide with AFC-557.</p> <p>(6) CE 1.1.7 - Type 2 AMC A-kits were procured under BLI 05770 and are being installed under BLI 05250. Type 2 AMC B-kits have been removed from aircraft and replaced with Type 3 AMC kits, so there is no cost for B-kits. The B-kits are O-level installs so there is no associated install cost or schedule for B-kits.</p> <p>(7) CE 2.1.8 Costs for obsolescence kits vary because obsolescence issues are not an ongoing effort for a single item and are not subject to inflation driven increases. The requirement for obsolescence kits was determined by evaluating historic life of type buy costs for analogous systems. These costs were projected to support future obsolescence issues in the affected components.</p> <p>(8) CE 2.2.3 FY2024 increase to include additional ECPs into the Automated Maintenance Environment (AME) Software</p> <p>(9) CE 2.2.5 FY2024 increase to support Software Modernization Open Systems Engineering Environment (OSEE) and open architecture software modernization requirements that are necessary to deliver software based capabilities affecting the entire Operational Flight Profile (OFP) not related to a particular H-Build.</p> <p>(10) CE 2.2.8 FY2024 increase to support Software Modernization efforts for Advanced Cockpit Systems (ACS)</p> <p>(11) CE 2.2.9 FY2024 H22 funding is required for Software Anomaly Report (SAR) and Cyber Security Scans Corrections to meet safety of flight and mission critical requirements.</p> <p>(12) CE 3.3 FY2024 training equipment funding to incorporate ECPs to the Live, Virtual and Constructive (LVC) training and Tactical Combat Training System (TCTS) II system to upgrade and integrate network and datalink systems, threat and weapon simulation systems, and Operational Flight Programs (OFP)</p>		

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0525 / F-18 Series	Modification Number / Title: 5 / AESA/AN-APG-65/AN-APG-73 (OSIP 002-07)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	1,406.208	34.988	36.443	51.964	0.000	51.964	90.942	83.324	92.284	92.582	231.039	2,119.774
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	1,406.208	34.988	36.443	51.964	0.000	51.964	90.942	83.324	92.284	92.582	231.039	2,119.774
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	1,406.208	34.988	36.443	51.964	0.000	51.964	90.942	83.324	92.284	92.582	231.039	2,119.774

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The F/A-18E/F and EA-18G program has developed and integrated the APG-79 Active Electronically Scanned Array (AESA) radar system for installation in Lot 26 and subsequent Block II, Super Hornet and Growler aircraft. The integration of the APG-79 AESA radar system into the F/A-18E /F and EA-18G greatly improves the weapon system's threat detection range, high resolution synthetic aperture radar ground mapping and targeting capability, aircraft survivability and situational awareness. APG-79 AESA Radar Producibility Enhancement (ECP 6279) is an umbrella ECP and is comprised of Electro Magnetic Interference Upgrades (ECP 6298), Waveform Generator Firmware Upgrade (ECP 6329), and Power Conditioning Unit Upgrade to -120 (ECP 6314). The Configuration D upgrade includes the following ECPs: General Purpose Processor (GPP)3 (ECP 6381); 5th and 6th Channel (ECP 6344); Waveform Generator (ECP 6346), Waveform Generator- R2 Firmware (ECP 6346R2), and General Purpose Processor (GPP)3 General Purpose Controller (GPC) (ECP 6381). Corrections, modifications, and upgrades to Radar software is supported in compliance with system configuration set (SCS) builds.

This Operational, Safety and Improvement Program (OSIP) also includes recurring and non-recurring efforts for reliability and operational safety improvements to, as well as obsolescence mitigation for, the APG-65 and APG-73 radars. These efforts include retrofit incorporation of APG-73 into F/A-18 C/D AFC 585 Kits (ECP 620). Funding included for Sensor Hardware Encapsulation Layer Narrow Band Converter Module Firmware (SNBC FW).

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

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Exhibit P-3a, Individual Modification: PB 2024 Navy										Date: March 2023				
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0525 / F-18 Series					Modification Number / Title: 5 / AESA/AN-APG-65/AN-APG-73 (OSIP 002-07)				
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:							
Models of Systems Affected: F/A-18A-F and EA-18G				Modification Type: AVIONICS UPGRADE				Related RDT&E PEs:						
Financial Plan <small>(*) Indicates the modification is being installed organically and no installation funds are required.</small>	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total		
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)		
Procurement														
1.1.1) A-Kits Archived - NonOrganic <i>Installation 1 of 1</i>	131 / 37.494	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	131 / 37.494		
2.1.1) GPP3 (ECP 6381) - NonOrganic <i>Installation 1 of 1</i>	689 / 145.400	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	689 / 145.400		
2.1.2) 5th and 6th Channel (ECP 6344) - NonOrganic <i>Installation 1 of 1</i>	398 / 72.375	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	398 / 72.375		
1.2.1) Installation Kits N/R - Organic ^(*)	- / 6.203	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 6.203		
2.1.3) Waveform Generator FW (ECP 6346) - Organic ^(*)	205 / 2.470	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	205 / 2.470		
2.1.4) APG-65/73 obsolescence - Organic ^(*) (13)	- / 32.141	- / 2.662	- / 3.986	- / 4.106	- / -	- / 4.106	- / 14.228	- / 15.353	- / 20.358	- / 21.527	- / -	- / 114.361		
2.1.5) APG-79 obsolescence - Organic ^(*) (14)	- / 21.237	- / 3.480	- / 5.299	- / 8.083	- / -	- / 8.083	- / 13.725	- / 12.373	- / 15.769	- / 16.213	- / -	- / 96.179		
2.1.6) SNBC FW ECP 6517 - Organic ^(*)	- / 4.098	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 4.098		
2.1.7) B-Kits Archive - Organic ^(*)	1,116 / 540.662	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1,116 / 540.662		
2.2.1) Installation Equipment N/R - Organic ^(*)	- / 254.083	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 254.083		
2.2.2) Software - Legacy Radar Software Upgrades - Organic ^(*) (15)	- / 52.964	- / 9.880	- / 6.480	- / 8.494	- / -	- / 8.494	- / 22.331	- / 13.130	- / 13.393	- / 13.660	- / 165.376	- / 305.708		
2.2.3) Software - AESA Short Range Improvement S/W Upgrade - Organic ^(*) (16)	- / 32.608	- / 2.006	- / 3.396	- / 3.464	- / -	- / 3.464	- / 3.533	- / 3.604	- / 3.676	- / 3.750	- / 15.762	- / 71.799		
2.2.4) Software - Organic ^(*)	- / -	- / -	- / -	- / 12.958	- / -	- / 12.958	- / 22.330	- / 24.900	- / 24.509	- / 26.262	- / -	- / 110.959		
Subtotal: Procurement	- / 1,201.735	- / 18.028	- / 19.161	- / 37.105	- / -	- / 37.105	- / 76.147	- / 69.360	- / 77.705	- / 81.412	- / 181.138	- / 1,761.791		
Support														
3.1) Engineering Change Orders	- / 34.268	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 34.268		
3.2) Data	- / 2.290	- / -	- / 0.265	- / 0.271	- / -	- / 0.271	- / 0.276	- / 0.284	- / 0.290	- / -	- / -	- / 3.676		
3.3) Support Equipment	- / 14.078	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 14.078		
3.4) ILS	- / 9.254	- / 0.414	- / 0.271	- / 0.276	- / -	- / 0.276	- / 0.282	- / 0.287	- / 0.293	- / 0.299	- / 1.545	- / 12.921		
3.5) Other Support	- / 121.685	- / 12.585	- / 11.356	- / 11.564	- / -	- / 11.564	- / 12.976	- / 13.393	- / 13.996	- / 10.871	- / 48.356	- / 256.782		
Subtotal: Support	- / 181.575	- / 12.999	- / 11.892	- / 12.111	- / -	- / 12.111	- / 13.534	- / 13.964	- / 14.579	- / 11.170	- / 49.901	- / 321.725		
Installation														
Installation 1 of 1: GRP: Prior Year Installs	- / 22.898	- / 3.961	- / 5.390	- / 2.748	- / 0.000	- / 2.748	- / 1.261	- / -	- / -	- / -	- / 0.000	- / 36.258		
Subtotal: Installation	- / 22.898	- / 3.961	- / 5.390	- / 2.748	- / -	- / 2.748	- / 1.261	- / -	- / -	- / -	- / 0.000	- / 36.258		
Total														

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0525 / F-18 Series	Modification Number / Title: 5 / AESA/AN-APG-65/AN-APG-73 (OSIP 002-07)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Models of Systems Affected: F/A-18A-F and EA-18G **Modification Type:** AVIONICS UPGRADE **Related RDT&E PEs:**

Financial Plan <small>(*) Indicates the modification is being installed organically and no installation funds are required.</small>	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>
Total Cost (Procurement + Support + Installation)	1,406.208	34.988	36.443	51.964	0.000	51.964	90.942	83.324	92.284	92.582	231.039	2,119.774

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0525 / F-18 Series	Modification Number / Title: 5 / AESA/AN-APG-65/AN-APG-73 (OSIP 002-07)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Installation 1 of 1: GRP: Prior Year Installs

Manufacturer Information

Manufacturer Name: Not Specified.	Manufacturer Location: Not Specified..
Administrative Leadtime (in Months): 0	Production Leadtime (in Months): 0

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates							
Delivery Dates							

Installation Information

Method of Implementation: Various:: Installation Name: Prior Year Installs

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	723 / 22.898	150 / 3.961	200 / 5.390	100 / 2.748	0 / 0.000	100 / 2.748	45 / 1.261	- / -	- / -	- / -	0 / 0.000	1,218 / 36.258
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	723 / 22.898	150 / 3.961	200 / 5.390	100 / 2.748	0 / 0.000	100 / 2.748	45 / 1.261	- / -	- / -	- / -	0 / 0.000	1,218 / 36.258

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot				
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4						
In	723	37	38	37	38	50	50	50	50	25	25	25	25	10	10	10	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Out	723	37	38	37	38	50	50	50	50	25	25	25	25	10	10	10	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Footnotes:
⁽¹³⁾ CE 2.1.4 Costs for obsolescence kits vary because obsolescence issues are not an ongoing effort for a single item and are not subject to inflation driven increases. The requirement for obsolescence kits was determined by evaluating historic life of type buy costs for analogous systems. These costs were projected to support future obsolescence issues in the affected components.

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0525 / F-18 Series	Modification Number / Title: 5 / AESA/AN-APG-65/AN-APG-73 (OSIP 002-07)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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⁽¹⁴⁾ CE 2.1.5 Costs for obsolescence kits vary because obsolescence issues are not an ongoing effort for a single item and are not subject to inflation driven increases. The requirement for obsolescence kits was determined by evaluating historic life of type buy costs for analogous systems. These costs were projected to support future obsolescence issues in the affected components.

⁽¹⁵⁾ CE 2.2.2 There are no quantities associated with software modifications. Legacy Radar Software upgrades for The Configuration D upgrade includes the following ECPs: General Purpose Processor (GPP)3 (ECP 6381); 5th and 6th Channel (ECP 6344); Waveform Generator (ECP 6346), Waveform Generator- R2 Firmware (ECP 6346R2) and General Purpose Processor (GPP)3 General Purpose Controller (GPC) (ECP 6381)

⁽¹⁶⁾ CE 2.2.3 There are no quantities associated with software modifications. Software is related to the APG-79 Active Electronically Scanned Array (AESA) radar system

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0525 / F-18 Series	Modification Number / Title: 6 / EW Unique (OSIP 021-08)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	363.811	15.265	12.664	3.711	0.000	3.711	12.347	202.323	223.699	345.122	498.358	1,677.300
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	363.811	15.265	12.664	3.711	0.000	3.711	12.347	202.323	223.699	345.122	498.358	1,677.300
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	363.811	15.265	12.664	3.711	0.000	3.711	12.347	202.323	223.699	345.122	498.358	1,677.300

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Purchase additional ALR-67(V)3 Radar Warning Receiver (RWR) systems and ALQ-214(V)4/5 self-protection onboard jammer systems to be used to retrofit F/A-18C/D/E/F platforms. These systems will replace existing ALR-67(V)2 RWR and ALQ-126B or ALQ-165 jammer systems. This will significantly increase aircrew survivability in the legacy F/A-18. The repetitive obsolescence issues of the V(2), ALQ-165, and ALQ-126B systems is a consistent issue in the F/A-18 community. The RWR ALR-67(V)3 is the threat recognition providing situational awareness for the aircrew and is vital to their own safety as well as providing the opportunity to support the ground troops. The jammer ALQ-214 provides incremental, significant improvement in survivability against RF threats. These retrofits reduce the risk of lost aircraft and aircrew in a hostile environment, improves close air support, and reduces the risk of blue on blue fratricide. The Operational, Safety and Improvement Program (OSIP) also performs required safety of flight modifications, addresses obsolescence issues and incorporates system improvements for all electronic warfare unique requirements to include hardware and software modifications. Current ECPs include ECP 622 (ALR-67(V)3), ECP 6389 (ALQ-214(V)4/5) Software and IETMs updates are also required as a result of these modifications. ALR-67(V)3 and ALQ-214(V)4/5 kit procurements are required for aircraft installation.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: ALR-67V(3) development and integration efforts started in FY10 and delivery and installs of A-kits began in FY14 and will continue through FY24 on the ALR-67(V)3 and on the ALQ-214.

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy										Date: March 2023				
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0525 / F-18 Series					Modification Number / Title: 6 / EW Unique (OSIP 021-08)				
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:							
Models of Systems Affected: F/A-18C/D/E/F ALR-67(V)3 Retrofit				Modification Type: Capability Improvements				Related RDT&E PEs:						
Financial Plan <small>(*) Indicates the modification is being installed organically and no installation funds are required.</small>	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total		
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)		
Procurement														
1.1.1) ALR 67(V)3 (ECP 622) -- OCO - NonOrganic ⁽¹⁷⁾ <i>Installation 1 of 4</i>	159 / 5.442	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	159 / 5.442		
1.1.2) ECP 6389 (ALQ-214) - NonOrganic <i>Installation 2 of 4</i>	133 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	133 / 0.000		
1.1.3) Advanced EW Systems A-Kits - NonOrganic <i>Installation 3 of 4</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	35 / 4.620	38 / 5.116	68 / 9.339	91 / 13.727	232 / 32.802		
1.1.4) A-Kits Archive - Organic ^(*)	131 / 3.855	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	131 / 3.855		
1.2.1) Installation Kits N/R - Organic ^(*)	- / 2.792	- / -	- / -	- / -	- / -	- / -	- / -	- / 4.477	- / 13.430	- / -	- / -	- / 20.699		
2.1.1) Advanced EW Systems B Kits - NonOrganic <i>Installation 4 of 4</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	35 / 158.658	38 / 175.702	68 / 320.702	91 / 444.238	232 / 1,099.300		
2.1.2) B-Kits Archive - Organic ^(*)	735 / 253.181	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	735 / 253.181		
2.2.1) Installation Equipment N/R - Organic ^(*)	- / 14.190	- / -	- / -	- / -	- / -	- / -	- / 9.835	- / 19.879	- / 12.545	- / -	- / -	- / 56.449		
2.2.2) Software - ALR-67(V)3 system S/W upgrade - Organic ^(*)	- / 37.032	- / 1.594	- / 1.442	- / 1.372	- / -	- / 1.372	- / -	- / -	- / -	- / -	- / -	- / 41.440		
2.2.3) H18 ALE-47 Common Carriage - Organic ^(*)	- / 2.331	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.331		
2.2.4) H18 EW ALR-67(V)3 BIT Improvement - Organic ^(*)	- / 1.245	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.245		
2.2.5) H18 EW Suite - Organic ^(*)	- / 2.982	- / 2.713	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 5.695		
2.2.6) Software - Organic ^(*)	- / -	- / 4.465	- / 4.550	- / -	- / -	- / -	- / -	- / 3.405	- / 3.504	- / -	- / -	- / 15.924		
Subtotal: Procurement	- / 323.050	- / 8.772	- / 5.992	- / 1.372	- / -	- / 1.372	- / 9.835	- / 191.039	- / 210.297	- / 330.041	- / 457.965	- / 1,538.363		
Support														
3.1) Data	- / 3.564	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 3.564		
3.2) Training Equipment	- / 0.276	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.276		
3.3) Support Equipment- ALE 55	- / 17.321	- / 0.150	- / 0.153	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 17.624		
3.4) ILS	- / 6.155	- / 0.791	- / 0.806	- / 0.823	- / -	- / 0.823	- / 0.839	- / 0.855	- / 0.872	- / 0.889	- / 0.176	- / 12.206		
3.5) Other Support	- / 18.708	- / 4.613	- / 4.704	- / 1.058	- / -	- / 1.058	- / 1.673	- / 10.429	- / 10.636	- / 12.212	- / 31.088	- / 95.121		
Subtotal: Support	- / 36.024	- / 5.554	- / 5.663	- / 1.881	- / -	- / 1.881	- / 2.512	- / 11.284	- / 11.508	- / 13.101	- / 31.264	- / 118.791		
Installation														
Installation 1 of 4: ALR 67(V)3 (ECP 622) -- OCO	- / 2.328	- / 0.464	- / 0.525	- / 0.321	- / 0.000	- / 0.321	- / -	- / -	- / -	- / -	- / 0.000	- / 3.638		
Installation 2 of 4: ECP 6389 (ALQ-214)	- / 2.409	- / 0.475	- / 0.484	- / 0.137	- / 0.000	- / 0.137	- / -	- / -	- / -	- / -	- / 0.000	- / 3.505		
Installation 3 of 4: Advanced EW Systems A-Kits	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.326	- / 1.352	- / 6.392	- / 9.070		
Installation 4 of 4: Advanced EW Systems B Kits	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.568	- / 0.628	- / 2.737	- / 3.933		

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy **Date:** March 2023

Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0525 / F-18 Series	Modification Number / Title: 6 / EW Unique (OSIP 021-08)
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ID Code (A=Service Ready, B=Not Service Ready) : **MDAP/MAIS Code:**

Models of Systems Affected: F/A-18C/D/E/F **Modification Type:** Capability Improvements **Related RDT&E PEs:**
ALR-67(V)3 Retrofit

Financial Plan <small>(*) Indicates the modification is being installed organically and no installation funds are required.</small>	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>
<i>Subtotal: Installation</i>	- / 4.737	- / 0.939	- / 1.009	- / 0.458	- / -	- / 0.458	- / -	- / -	- / 1.894	- / 1.980	- / 9.129	- / 20.146
Total												
Total Cost (Procurement + Support + Installation)	363.811	15.265	12.664	3.711	0.000	3.711	12.347	202.323	223.699	345.122	498.358	1,677.300

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy **Date:** March 2023

Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0525 / F-18 Series	Modification Number / Title: 6 / EW Unique (OSIP 021-08)
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ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Installation 1 of 4: ALR 67(V)3 (ECP 622) -- OCO

Manufacturer Information

Manufacturer Name: Not Specified.	Manufacturer Location: Not Specified..
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Administrative Leadtime (in Months): 0	Production Leadtime (in Months): 0
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Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates							
Delivery Dates							

Installation Information

Method of Implementation: Navy Drive-In Modification:: Installation Name: ALR 67(V)3 (ECP 622) -- OCO

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	109 / 2.328	18 / 0.464	20 / 0.525	12 / 0.321	0 / 0.000	12 / 0.321	- / -	- / -	- / -	- / -	0 / 0.000	159 / 3.638
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	109 / 2.328	18 / 0.464	20 / 0.525	12 / 0.321	0 / 0.000	12 / 0.321	- / -	- / -	- / -	- / -	0 / 0.000	159 / 3.638

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot	
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4			
In	109	4	5	4	5	5	5	5	5	3	3	3	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Out	109	4	5	4	5	5	5	5	5	3	3	3	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy **Date:** March 2023

Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0525 / F-18 Series	Modification Number / Title: 6 / EW Unique (OSIP 021-08)
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ID Code (A=Service Ready, B=Not Service Ready) : **MDAP/MAIS Code:**

Installation 2 of 4: ECP 6389 (ALQ-214)

Manufacturer Information

Manufacturer Name: Not Specified. Manufacturer Location: Not Specified..

Administrative Leadtime (in Months): 0 Production Leadtime (in Months): 0

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates							
Delivery Dates							

Installation Information

Method of Implementation: Navy Field Mod Team:: Installation Name: ECP 6389 (ALQ-214)

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	92 / 2.409	18 / 0.475	18 / 0.484	5 / 0.137	0 / 0.000	5 / 0.137	- / -	- / -	- / -	- / -	0 / 0.000	133 / 3.505
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	92 / 2.409	18 / 0.475	18 / 0.484	5 / 0.137	0 / 0.000	5 / 0.137	- / -	- / -	- / -	- / -	0 / 0.000	133 / 3.505

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot	
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4			
In	92	4	5	4	5	4	5	4	5	2	1	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	133
Out	92	4	5	4	5	4	5	4	5	2	1	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	133

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy **Date:** March 2023

Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0525 / F-18 Series	Modification Number / Title: 6 / EW Unique (OSIP 021-08)
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ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Installation 3 of 4: Advanced EW Systems A-Kits

Manufacturer Information

Manufacturer Name: TBD	Manufacturer Location: TBD
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Administrative Leadtime (in Months): 3	Production Leadtime (in Months): 10
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Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates					Dec 2025	Dec 2026	Dec 2027
Delivery Dates					Oct 2026	Oct 2027	Oct 2028

Installation Information

Method of Implementation: NAVY FIELD MOD TEAM:: Installation Name: Advanced EW Systems A-Kits

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	35 / 1.326	- / -	0 / 0.000	35 / 1.326
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	38 / 1.352	0 / 0.000	38 / 1.352
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	68 / 2.680	68 / 2.680
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	91 / 3.712	91 / 3.712
Total	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	35 / 1.326	38 / 1.352	159 / 6.392	232 / 9.070

Installation Schedule

PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8	9	9	9	9	9	10	10	159	232
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8	9	9	9	9	9	10	10	159	232

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy **Date:** March 2023

Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0525 / F-18 Series	Modification Number / Title: 6 / EW Unique (OSIP 021-08)
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ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Installation 4 of 4: Advanced EW Systems B Kits

Manufacturer Information

Manufacturer Name: TBD	Manufacturer Location: TBD
Administrative Leadtime (in Months): 3	Production Leadtime (in Months): 10

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates					Dec 2025	Dec 2026	Dec 2027
Delivery Dates					Oct 2026	Oct 2027	Oct 2028

Installation Information

Method of Implementation: NAVY FIELD MOD TEAM:: Installation Name: Advanced EW Systems B Kits

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	35 / 0.568	- / -	0 / 0.000	35 / 0.568
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	38 / 0.628	0 / 0.000	38 / 0.628
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	68 / 1.147	68 / 1.147
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	91 / 1.590	91 / 1.590
Total	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	35 / 0.568	38 / 0.628	159 / 2.737	232 / 3.933

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8	9	9	9	9	9	10	10	159	232
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8	9	9	9	9	9	10	10	159	232

Footnotes:
⁽¹⁷⁾ CE 1.1.1.1 ALR 67(V)3 (ECP 622) OCO Qty 100 being installed with Baseline funding.

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0525 / F-18 Series	Modification Number / Title: 7 / Network Centric Operations: (OSIP 001-10)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	406.414	38.862	70.097	77.782	0.000	77.782	58.169	48.786	73.857	85.787	491.538	1,351.292
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	406.414	38.862	70.097	77.782	0.000	77.782	58.169	48.786	73.857	85.787	491.538	1,351.292
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	406.414	38.862	70.097	77.782	0.000	77.782	58.169	48.786	73.857	85.787	491.538	1,351.292

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Operational, Safety and Improvement Program (OSIP) 001-10 will implement a common configuration and capability across all F/A-18 and EA-18G aircraft. Improving platform performance in all mission areas including Surface Warfare (SuW), air-to-air, strike, Suppression of Enemy Air Defenses (SEAD)/Defensive Electronic Counter Measurements (DECD) and interoperability which will result in a reduction of a number of aircraft and weapons to execute SuW and strike missions in most stressing scenarios, decrease in time on target to execute SuW, SEAD/DECD missions in major combat operations scenarios and will improve survivability due to decreased time on target.

The F/A-18 program has developed and integrated multiple systems to be installed in Lot 26 and subsequent block 2 and block 3 aircraft. The integration of the systems: ECP 6253 - Distributed Targeting System (DTS), Distributed Targeting Processor - Network (DTP-N), ECP 6442 - Data Transfer Unit (DTU), ECP-NI-F/A-18-1254-20 1553 DTU, ECP 6393 - Digital Memory Device (DMD), Advanced Navigation (ANAV), ECP 6318 - Upgraded Solid State Recorder (USSR), digital cueing systems and G4 processor, and interoperability modifications due to multifunctional information distribution system low volume terminal and digital communication system radio military-standard will greatly improve the weapon systems threat capability. This OSIP will implement the required architecture in support of Navigation Plan 2030. The ANAV retrofit implements an advanced inertial navigation system/global positioning system that increases platform navigation accuracy and smart weapon targeting solutions. Due to ANAV obsolescence and continued aircraft production, the ANAV retrofit for E/F Lots 26-29 (ECP 6340R1) (TD574) has been put into abeyance in order to supply retrofit ANAVs for production aircraft deliveries. The current plan is for the PMW170 ANAV-M program to replace the ANAV, which will allow the ANAV retrofit program to be completed.

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Exhibit P-3a, Individual Modification: PB 2024 Navy										Date: March 2023			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0525 / F-18 Series					Modification Number / Title: 7 / Network Centric Operations: (OSIP 001-10)			
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: F/A-18A-F and EA-18G				Modification Type: Avionics Upgrade				Related RDT&E PEs:					
Financial Plan		Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
(*) Indicates the modification is being installed organically and no installation funds are required.		Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Procurement													
1.1.1) DTS A1 A-kit (LOTS 26-29) (ECP 6253) - NonOrganic Installation 1 of 11		169 / 6.165	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	169 / 6.165
1.1.2) DTP-N A-kits (A1) (ECP6509) (G) - NonOrganic Installation 2 of 11		103 / 2.067	32 / 0.476	25 / 0.379	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	160 / 2.922
1.1.3) DTP-N A-kits (A2) (ECP6509) (G) - NonOrganic Installation 3 of 11		84 / 1.565	13 / 0.232	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	97 / 1.797
1.1.4) DTP-N A-kits (A1) (ECP 6509) E/F - NonOrganic Installation 4 of 11		- / -	- / -	25 / 0.448	26 / 0.475	- / -	26 / 0.475	20 / 0.373	25 / 0.476	30 / 0.582	35 / 0.692	255 / 5.143	416 / 8.189
1.1.5) DTP-N A-kits (A2) (ECP 6509) E/F - NonOrganic Installation 4 of 11		- / -	- / -	25 / 0.448	26 / 0.475	- / -	26 / 0.475	20 / 0.373	25 / 0.476	30 / 0.582	35 / 0.692	255 / 5.042	416 / 8.088
1.1.6) ANI Wiring A-kit (ECP 6522) E/F - NonOrganic Installation 5 of 11		4 / 2.640	- / -	25 / 1.500	26 / 1.591	- / -	26 / 1.591	20 / 1.248	25 / 1.592	30 / 1.948	35 / 2.318	255 / 16.890	420 / 29.727
1.1.7) DTU A-kit - Organic ^(*)		430 / 0.004	110 / 0.001	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	540 / 0.005
1.1.8) ECP 6318 USSR A Kit - NonOrganic Installation 6 of 11		179 / 7.748	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	179 / 7.748
1.1.9) 1553 DTU A Kits (LOTS 23-25) (ECP1254-20) - NonOrganic Installation 7 of 11		- / -	- / -	48 / 0.240	48 / 0.245	- / -	48 / 0.245	- / -	- / -	- / -	- / -	- / -	96 / 0.485
1.1.10) DMD A-kit install (ECP 6393) - NonOrganic Installation 8 of 11		160 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	160 / 0.000
1.1.11) ECP XXX - Distributed Maritime Operations Landing System (DMOLS) A-Kit - NonOrganic Installation 9 of 11		- / -	- / -	- / -	83 / 2.778	- / -	83 / 2.778	82 / 2.496	- / -	- / -	- / -	- / -	165 / 5.274
2.1.7) ECP XXX - Distributed Maritime Operations Landing System (DMOLS) B-Kit - NonOrganic Installation 9 of 11		- / -	- / -	- / -	83 / 18.240	- / -	83 / 18.240	82 / 16.340	- / -	- / -	- / -	- / -	165 / 34.580
1.1.12) Archived A-Kits - Organic ^(*)		866 / 31.846	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	866 / 31.846
2.1.1) DTP-N B-kits (DTP-N) (ECP6509) (G) - NonOrganic Installation 10 of 11		103 / 64.698	32 / 21.640	25 / 17.245	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	160 / 103.583
2.1.2) DTP-N B-kit (ECP 6509) E/F - NonOrganic ⁽¹⁸⁾ Installation 11 of 11		- / -	- / -	25 / 19.750	26 / 24.333	- / -	26 / 24.333	20 / 19.092	25 / 24.343	30 / 29.796	35 / 35.457	255 / 263.493	416 / 416.264
2.1.3) DTS B-kit (MSU) (ECP 6253) - Organic ^(*)		125 / 8.102	40 / 3.191	42 / 3.418	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	207 / 14.711
2.1.4) DTP-N B-kits (BDCs) (ECP 6509) - Organic ^(*)		190 / 2.228	105 / 1.842	100 / 1.789	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	395 / 5.859
2.1.5) DTU B-kit - Organic ^(*)		555 / 37.160	21 / 1.635	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	576 / 38.795
2.1.6) 1553 DTU B Kits (ECP 1254-20) - Organic ^(*)		- / -	- / -	48 / 5.424	48 / 5.532	- / -	48 / 5.532	- / -	- / -	- / -	- / -	- / -	96 / 10.956

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Exhibit P-3a, Individual Modification: PB 2024 Navy										Date: March 2023			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0525 / F-18 Series					Modification Number / Title: 7 / Network Centric Operations: (OSIP 001-10)			
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: F/A-18A-F and EA-18G				Modification Type: Avionics Upgrade				Related RDT&E PEs:					
Financial Plan <small>(*) Indicates the modification is being installed organically and no installation funds are required.</small>	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
2.1.8) Network Centric Operations Obsolescence - Organic ^(*)	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 17.583	- / 20.564	- / 12.176	- / 50.323	
2.1.9) Archive - B-kit - Organic ^(*)	5,191 / 161.407	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	5,191 / 161.407	
2.2.1) Installation Equipment N/R - Organic ^(*)	7 / 10.553	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	7 / 10.553	
2.2.2) Software - Organic ^(*)	- / 0.589	- / 0.601	- / 0.613	- / 0.537	- / -	- / 0.537	- / 0.548	- / 0.397	- / -	- / -	- / -	- / 3.285	
Subtotal: Procurement	- / 336.772	- / 29.618	- / 51.254	- / 54.206	- / -	- / 54.206	- / 40.470	- / 27.284	- / 50.491	- / 59.723	- / 302.744	- / 952.562	
Support													
3.1) Data	- / 3.879	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 3.879	
3.2) Training Equipment ⁽¹⁹⁾	- / -	- / -	27 / 0.185	27 / 0.189	- / -	27 / 0.189	- / -	- / -	- / -	- / -	- / -	54 / 0.374	
3.3) Support Equipment	181 / 13.940	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	181 / 13.940	
3.4) Other Support	- / 126.803	- / 5.932	- / 6.051	- / 6.172	- / -	- / 6.172	- / 6.295	- / 6.421	- / 6.549	- / 6.680	- / 40.430	- / 111.333	
3.5) ILS	- / 16.584	- / 0.654	- / 0.667	- / 0.681	- / -	- / 0.681	- / 0.694	- / 0.708	- / 0.722	- / 0.736	- / 7.757	- / 29.203	
Subtotal: Support	- / 61.206	- / 6.586	- / 6.903	- / 7.042	- / -	- / 7.042	- / 6.989	- / 7.129	- / 7.271	- / 7.416	- / 48.187	- / 158.729	
Installation													
Installation 1 of 11: DTS A1 A-kit (LOTS 26-29) (ECP 6253)	- / 2.902	- / 1.003	- / 1.402	- / 0.618	- / 0.000	- / 0.618	- / 0.946	- / -	- / -	- / -	- / 0.000	- / 6.871	
Installation 2 of 11: DTP-N A-kits (A1) (ECP6509) (G)	- / 0.586	- / 0.600	- / 0.612	- / 0.626	- / 0.000	- / 0.626	- / 0.497	- / -	- / -	- / -	- / 0.000	- / 2.921	
Installation 3 of 11: DTP-N A-kits (A2) (ECP6509) (G)	- / 0.431	- / 0.470	- / 0.330	- / 0.200	- / 0.000	- / 0.200	- / -	- / -	- / -	- / -	- / 0.000	- / 1.431	
Installation 4 of 11: GRP: DTP-N A-kit E/F (SLM)	- / -	- / -	- / 0.902	- / 0.938	- / 0.000	- / 0.938	- / 0.771	- / 0.958	- / 1.172	- / 1.394	- / 10.375	- / 16.510	
Installation 5 of 11: ANI Wiring A-kit (ECP 6522) E/F	- / 1.820	- / -	- / 8.190	- / 13.458	- / 0.000	- / 13.458	- / 7.288	- / 12.069	- / 14.482	- / 17.231	- / 130.041	- / 204.579	
Installation 6 of 11: ECP 6318 USSR A Kit	- / 1.835	- / 0.044	- / 0.015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 1.894	
Installation 7 of 11: 1553 DTU A Kits (LOTS 23-25) (ECP1254-20)	- / -	- / -	- / -	- / 0.192	- / 0.000	- / 0.192	- / 0.196	- / -	- / -	- / -	- / 0.000	- / 0.388	
Installation 8 of 11: DMD A-kit install (ECP 6393)	- / 0.843	- / 0.521	- / 0.455	- / 0.465	- / 0.000	- / 0.465	- / 0.079	- / -	- / -	- / -	- / 0.000	- / 2.363	
Installation 9 of 11: GRP: Distributed Maritime Operations Landing System (DMOLS)	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.900	- / 1.330	- / 0.420	- / -	- / 0.000	- / 2.650	
Installation 10 of 11: DTP-N B-kits (DTP-N) (ECP6509) (G)	- / 0.019	- / 0.020	- / 0.020	- / 0.020	- / 0.000	- / 0.020	- / 0.020	- / -	- / -	- / -	- / 0.000	- / 0.099	
Installation 11 of 11: DTP-N B-kit (ECP 6509) E/F	- / -	- / -	- / 0.014	- / 0.017	- / 0.000	- / 0.017	- / 0.013	- / 0.016	- / 0.021	- / 0.023	- / 0.191	- / 0.295	
Subtotal: Installation	- / 8.436	- / 2.658	- / 11.940	- / 16.534	- / -	- / 16.534	- / 10.710	- / 14.373	- / 16.095	- / 18.648	- / 140.607	- / 240.001	
Total													

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0525 / F-18 Series	Modification Number / Title: 7 / Network Centric Operations: (OSIP 001-10)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Models of Systems Affected: F/A-18A-F and EA-18G **Modification Type:** Avionics Upgrade **Related RDT&E PEs:**

Financial Plan <small>(*) Indicates the modification is being installed organically and no installation funds are required.</small>	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>
Total Cost (Procurement + Support + Installation)	406.414	38.862	70.097	77.782	0.000	77.782	58.169	48.786	73.857	85.787	491.538	1,351.292

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0525 / F-18 Series	Modification Number / Title: 7 / Network Centric Operations: (OSIP 001-10)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Installation 1 of 11: DTS A1 A-kit (LOTS 26-29) (ECP 6253)

Manufacturer Information

Manufacturer Name: Not Specified.	Manufacturer Location: Not Specified..
Administrative Leadtime (in Months): 0	Production Leadtime (in Months): 0

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates							
Delivery Dates							

Installation Information

Method of Implementation: Navy Field Modification Team:: Installation Name: DTS A1 A-kit (LOTS 26-29) (ECP 6253)

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	65 / 2.902	27 / 1.003	37 / 1.402	16 / 0.618	0 / 0.000	16 / 0.618	24 / 0.946	- / -	- / -	- / -	0 / 0.000	169 / 6.871
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	65 / 2.902	27 / 1.003	37 / 1.402	16 / 0.618	0 / 0.000	16 / 0.618	24 / 0.946	- / -	- / -	- / -	0 / 0.000	169 / 6.871

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot	
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4			
In	65	6	7	7	7	9	9	9	10	4	4	4	4	6	6	6	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	169
Out	65	6	7	7	7	9	9	9	10	4	4	4	4	6	6	6	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	169

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0525 / F-18 Series	Modification Number / Title: 7 / Network Centric Operations: (OSIP 001-10)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Installation 2 of 11: DTP-N A-kits (A1) (ECP6509) (G)

Manufacturer Information

Manufacturer Name: BOEING - ECP 6500 HEATER LINE	Manufacturer Location: ST. LOUIS, MO
Administrative Leadtime (in Months): 6	Production Leadtime (in Months): 19

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates	Mar 2022	Mar 2023					
Delivery Dates	Oct 2023	Oct 2024					

Installation Information

Method of Implementation: [none specified]:: Installation Name: DTP-N A-kits (A1) (ECP6509) (G)

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	32 / 0.586	32 / 0.600	39 / 0.612	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	103 / 1.798
FY 2022	- / -	- / -	- / -	32 / 0.626	0 / 0.000	32 / 0.626	- / -	- / -	- / -	- / -	0 / 0.000	32 / 0.626
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	25 / 0.497	- / -	- / -	- / -	0 / 0.000	25 / 0.497
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	32 / 0.586	32 / 0.600	39 / 0.612	32 / 0.626	0 / 0.000	32 / 0.626	25 / 0.497	- / -	- / -	- / -	0 / 0.000	160 / 2.921

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	32	9	8	8	7	10	10	10	9	8	8	8	8	6	6	6	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Out	32	9	8	8	7	10	10	10	9	8	8	8	8	6	6	6	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0525 / F-18 Series	Modification Number / Title: 7 / Network Centric Operations: (OSIP 001-10)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Installation 3 of 11: DTP-N A-kits (A2) (ECP6509) (G)

Manufacturer Information

Manufacturer Name: Boeing	Manufacturer Location: St Louis MO
Administrative Leadtime (in Months): 9	Production Leadtime (in Months): 24

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates	Jun 2022						
Delivery Dates	Jun 2024						

Installation Information

Method of Implementation: [none specified]:: Installation Name: DTP-N A-kits (A2) (ECP6509) (G)

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	30 / 0.431	32 / 0.470	22 / 0.330	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	84 / 1.231
FY 2022	- / -	- / -	- / -	13 / 0.200	0 / 0.000	13 / 0.200	- / -	- / -	- / -	- / -	0 / 0.000	13 / 0.200
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	30 / 0.431	32 / 0.470	22 / 0.330	13 / 0.200	0 / 0.000	13 / 0.200	- / -	- / -	- / -	- / -	0 / 0.000	97 / 1.431

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot		
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4				
In	30	8	8	8	8	3	3	3	13	-	-	-	13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Out	30	8	8	8	8	3	3	3	13	-	-	-	13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0525 / F-18 Series	Modification Number / Title: 7 / Network Centric Operations: (OSIP 001-10)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Installation 4 of 11: GRP: DTP-N A-kit E/F (SLM)

Manufacturer Information

Manufacturer Name: Boeing	Manufacturer Location: St. Louis, MO
Administrative Leadtime (in Months): 3	Production Leadtime (in Months): 3

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates		Dec 2022	Dec 2023	Dec 2024	Dec 2025	Dec 2026	Dec 2027
Delivery Dates		Mar 2023	Mar 2024	Mar 2025	Mar 2026	Mar 2027	Mar 2028

Installation Information

Method of Implementation: TBD:: Installation Name: DTP-N A-kit E/F (SLM)

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	50 / 0.902	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	50 / 0.902
FY 2024	- / -	- / -	- / -	52 / 0.938	0 / 0.000	52 / 0.938	- / -	- / -	- / -	- / -	0 / 0.000	52 / 0.938
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	40 / 0.771	- / -	- / -	- / -	0 / 0.000	40 / 0.771
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	50 / 0.958	- / -	- / -	0 / 0.000	50 / 0.958
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	60 / 1.172	- / -	0 / 0.000	60 / 1.172
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	70 / 1.394	0 / 0.000	70 / 1.394
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	510 / 10.375	510 / 10.375
Total	- / -	- / -	50 / 0.902	52 / 0.938	0 / 0.000	52 / 0.938	40 / 0.771	50 / 0.958	60 / 1.172	70 / 1.394	510 / 10.375	832 / 16.510

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	25	25	-	-	26	26	-	-	20	20	-	-	25	25	-	-	30	30	-	-	30	40	510	832
Out	-	-	-	-	-	-	-	25	25	-	-	26	26	-	-	20	20	-	-	25	25	-	-	30	30	-	-	30	40	510	832

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0525 / F-18 Series	Modification Number / Title: 7 / Network Centric Operations: (OSIP 001-10)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Installation 5 of 11: ANI Wiring A-kit (ECP 6522) E/F

Manufacturer Information

Manufacturer Name: Boeing	Manufacturer Location: St. Louis, MO
Administrative Leadtime (in Months): 3	Production Leadtime (in Months): 3

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates		Dec 2022	Dec 2023	Dec 2024	Dec 2025	Dec 2026	Dec 2027
Delivery Dates		Mar 2023	Mar 2024	Mar 2025	Mar 2026	Mar 2027	Mar 2028

Installation Information

Method of Implementation: Contractor Team:: Installation Name: ANI Wiring A-kit (ECP 6522) E/F

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	4 / 1.820	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	4 / 1.820
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	18 / 8.190	7 / 3.248	0 / 0.000	7 / 3.248	- / -	- / -	- / -	- / -	0 / 0.000	25 / 11.438
FY 2024	- / -	- / -	- / -	22 / 10.210	0 / 0.000	22 / 10.210	4 / 0.473	- / -	- / -	- / -	0 / 0.000	26 / 10.683
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	16 / 6.815	4 / 1.931	- / -	- / -	0 / 0.000	20 / 8.746
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	21 / 10.138	4 / 1.931	- / -	0 / 0.000	25 / 12.069
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	26 / 12.551	4 / 1.970	0 / 0.000	30 / 14.521
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	31 / 15.261	4 / 1.969	35 / 17.230
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	255 / 128.072	255 / 128.072
Total	4 / 1.820	- / -	18 / 8.190	29 / 13.458	0 / 0.000	29 / 13.458	20 / 7.288	25 / 12.069	30 / 14.482	35 / 17.231	259 / 130.041	420 / 204.579

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	4	-	-	-	-	-	-	9	9	7	-	11	11	4	-	8	8	4	-	10	11	4	-	13	13	4	8	11	12	259	420
Out	4	-	-	-	-	-	-	9	9	7	-	11	11	4	-	8	8	4	-	10	11	4	-	13	13	4	8	11	12	259	420

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0525 / F-18 Series	Modification Number / Title: 7 / Network Centric Operations: (OSIP 001-10)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Installation 6 of 11: ECP 6318 USSR A Kit

Manufacturer Information

Manufacturer Name: Not Specified.	Manufacturer Location: Not Specified..
Administrative Leadtime (in Months): 0	Production Leadtime (in Months): 0

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates							
Delivery Dates							

Installation Information

Method of Implementation: Navy Mod Team:: Installation Name: ECP 6318 USSR A Kit

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	175 / 1.835	3 / 0.044	1 / 0.015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	179 / 1.894
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	175 / 1.835	3 / 0.044	1 / 0.015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	179 / 1.894

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	175	1	1	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Out	175	1	1	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0525 / F-18 Series	Modification Number / Title: 7 / Network Centric Operations: (OSIP 001-10)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Installation 7 of 11: 1553 DTU A Kits (LOTS 23-25) (ECP1254-20)

Manufacturer Information

Manufacturer Name: Physical Optics Corporation (POC)	Manufacturer Location: Torrance, CA
Administrative Leadtime (in Months): 6	Production Leadtime (in Months): 9

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates		Mar 2023	Mar 2024				
Delivery Dates		Dec 2023	Dec 2024				

Installation Information

Method of Implementation: Navy Field Modification Team:: Installation Name: 1553 DTU A Kits (LOTS 23-25) (ECP1254-20)

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	48 / 0.192	0 / 0.000	48 / 0.192	- / -	- / -	- / -	- / -	0 / 0.000	48 / 0.192
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	48 / 0.196	- / -	- / -	- / -	0 / 0.000	48 / 0.196
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	48 / 0.192	0 / 0.000	48 / 0.192	48 / 0.196	- / -	- / -	- / -	0 / 0.000	96 / 0.388

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot				
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4						
In	-	-	-	-	-	-	-	-	-	2	16	16	14	2	16	16	14	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Out	-	-	-	-	-	-	-	-	-	2	16	16	14	2	16	16	14	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0525 / F-18 Series	Modification Number / Title: 7 / Network Centric Operations: (OSIP 001-10)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Installation 8 of 11: DMD A-kit install (ECP 6393)

Manufacturer Information

Manufacturer Name: TBD	Manufacturer Location: TBD
Administrative Leadtime (in Months): 0	Production Leadtime (in Months): 0

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates							
Delivery Dates							

Installation Information

Method of Implementation: [none specified]:: Installation Name: DMD A-kit install (ECP 6393)

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	60 / 0.843	35 / 0.521	30 / 0.455	30 / 0.465	0 / 0.000	30 / 0.465	5 / 0.079	- / -	- / -	- / -	0 / 0.000	160 / 2.363
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	60 / 0.843	35 / 0.521	30 / 0.455	30 / 0.465	0 / 0.000	30 / 0.465	5 / 0.079	- / -	- / -	- / -	0 / 0.000	160 / 2.363

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot				
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4						
In	60	9	9	9	8	7	7	8	8	7	7	8	8	1	1	1	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Out	60	9	9	9	8	7	7	8	8	7	7	8	8	1	1	1	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0525 / F-18 Series	Modification Number / Title: 7 / Network Centric Operations: (OSIP 001-10)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Installation 9 of 11: GRP: Distributed Maritime Operations Landing System (DMOLS)

Manufacturer Information

Manufacturer Name: TBD	Manufacturer Location: TBD
Administrative Leadtime (in Months): 3	Production Leadtime (in Months): 12

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates			Dec 2023	Dec 2024			
Delivery Dates			Dec 2024	Dec 2025			

Installation Information

Method of Implementation: Method:: Installation Name: Distributed Maritime Operations Landing System (DMOLS)

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	120 / 0.900	46 / 0.430	- / -	- / -	0 / 0.000	166 / 1.330
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	120 / 0.900	44 / 0.420	- / -	0 / 0.000	164 / 1.320
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	- / -	- / -	- / -	120 / 0.900	166 / 1.330	44 / 0.420	- / -	0 / 0.000	330 / 2.650

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	40	40	40	46	40	40	40	44	-	-	-	-	-	-	-	-	-
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	40	40	40	46	40	40	40	44	-	-	-	-	-	-	-	-	-

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0525 / F-18 Series	Modification Number / Title: 7 / Network Centric Operations: (OSIP 001-10)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Installation 10 of 11: DTP-N B-kits (DTP-N) (ECP6509) (G)

Manufacturer Information

Manufacturer Name: Boeing	Manufacturer Location: St Louis MO
Administrative Leadtime (in Months): 9	Production Leadtime (in Months): 24

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates	Jun 2022	Jun 2023					
Delivery Dates	Jun 2024	Jun 2025					

Installation Information

Method of Implementation: Navy Field Modification Team:: Installation Name: DTP-N B-kits (DTP-N) (ECP6509) (G)

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	32 / 0.019	32 / 0.020	32 / 0.020	7 / 0.004	0 / 0.000	7 / 0.004	- / -	- / -	- / -	- / -	0 / 0.000	103 / 0.063
FY 2022	- / -	- / -	- / -	25 / 0.016	0 / 0.000	25 / 0.016	7 / 0.004	- / -	- / -	- / -	0 / 0.000	32 / 0.020
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	25 / 0.016	- / -	- / -	- / -	0 / 0.000	25 / 0.016
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	32 / 0.019	32 / 0.020	32 / 0.020	32 / 0.020	0 / 0.000	32 / 0.020	32 / 0.020	- / -	- / -	- / -	0 / 0.000	160 / 0.099

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot	
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4			
In	32	5	-	27	-	7	-	25	-	7	-	-	25	7	-	-	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	160
Out	32	5	-	27	-	7	-	25	-	7	-	-	25	7	-	-	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	160

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0525 / F-18 Series	Modification Number / Title: 7 / Network Centric Operations: (OSIP 001-10)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Installation 11 of 11: DTP-N B-kit (ECP 6509) E/F

Manufacturer Information

Manufacturer Name: Boeing	Manufacturer Location: St. Louis, MO
Administrative Leadtime (in Months): 3	Production Leadtime (in Months): 3

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates		Dec 2022	Dec 2023	Dec 2024	Dec 2025	Dec 2026	Dec 2027
Delivery Dates		Mar 2023	Mar 2024	Mar 2025	Mar 2026	Mar 2027	Mar 2028

Installation Information

Method of Implementation: Navy Field Modification Team:: Installation Name: DTP-N B-kit (ECP 6509) E/F

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	25 / 0.014	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	25 / 0.014
FY 2024	- / -	- / -	- / -	26 / 0.017	0 / 0.000	26 / 0.017	- / -	- / -	- / -	- / -	0 / 0.000	26 / 0.017
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	20 / 0.013	- / -	- / -	- / -	0 / 0.000	20 / 0.013
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	25 / 0.016	- / -	- / -	0 / 0.000	25 / 0.016
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	30 / 0.021	- / -	0 / 0.000	30 / 0.021
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	35 / 0.023	0 / 0.000	35 / 0.023
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	255 / 0.191	255 / 0.191
Total	- / -	- / -	25 / 0.014	26 / 0.017	0 / 0.000	26 / 0.017	20 / 0.013	25 / 0.016	30 / 0.021	35 / 0.023	255 / 0.191	416 / 0.295

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	2	11	12	-	2	12	12	-	2	9	9	-	2	11	12	-	2	14	14	-	10	12	13	255	416
Out	-	-	-	-	-	-	2	11	12	-	2	12	12	-	2	9	9	-	2	11	12	-	2	14	14	-	10	12	13	255	416

Footnotes:
⁽¹⁸⁾ CE 2.1.2 FY2024 DTP-N B-Kit increased to reflect unit cost per approved Engineering Change Proposal (ECP 6509) for incorporation of System Security Engineering and Cybersecurity
⁽¹⁹⁾ CE 3.2 - Training equipment in support of 1553 Data Transfer Unit (DTU) Effort

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0525 / F-18 Series	Modification Number / Title: 8 / Priority Stores Integration (OSIP 10-16)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	66.319	13.359	15.983	10.373	0.000	10.373	10.027	9.322	9.506	9.739	33.461	178.089
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	66.319	13.359	15.983	10.373	0.000	10.373	10.027	9.322	9.506	9.739	33.461	178.089
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	66.319	13.359	15.983	10.373	0.000	10.373	10.027	9.322	9.506	9.739	33.461	178.089

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The purpose of this Operational Safety Improvement Program (OSIP) is to facilitate aircraft capability upgrades to carry priority stores for F/A-18C-F and EA-18G aircraft. Priority Stores Integration contains fleet required air to air and air to ground weapon configurations upgrades to support fleet requirements. This OSIP will provide for F/A-18C-F and EA-18G aircraft weapon systems software and aeromechanical hardware upgrades needed during fleet operations to ensure that mission readiness and safety of flight regimes are maintained. It will also allow for weapon capability expansion through engineering, logistics, obsolescence updates and verification and validation of incorporated engineering changes. Specifically, this will provide mission flexibility by updating System Configuration Set (SCS) software in response to weapon software upgrades and weapon carriage and release characteristics.

Hardware and software modifications may be incorporated for the following efforts: Universal Armament Interface (UAI), Air Intercept Missile (AIM)-7, AIM-120, AIM-9, Joint Standoff Weapon (JSOW), Joint Direct Attack Munition (JDAM), Laser JDAM (LJDAM), Guided Bomb Unit (GBU)-10/12/16/24, Harpoon, Standoff Land Attack Missile Extended Range (SLAM-ER), underwater time bomb mines, aerial weapon fuzes, High Speed Anti-Radiation Missile (HARM), Advanced Anti-Radiation Guided Missile (AARGM), aircraft rocket systems, Advanced Guided Missile (AGM)-65 Maverick, M61 aerial rotary cannon, ALQ-99, ALQ-218, ALE-43, Cluster Bomb Units (CBUs), aerial countermeasure flares and smoke emitters, General Purpose (GP) bombs, Laser Guided Training Rounds (LGTRs), Small Diameter Bomb (SDB)-II, the Offensive Anti Surface Warfare (OASuW), Long Range Antiship Missile (LRASM), Miniature Air Launched Decoy (MALD), Next Generation Jammer (NGJ) pod, Bomb Releasable Unit (BRU)-32, BRU-55, Launcher Ariel Unit (LAU)-127, LAU-116, LAU-115, LAU-117, LAU-118, Adapter Unit (ADU)-773, Suspension Underwing Unit (SUU)-62, SUU-63, SUU-78, SUU-79 and the SUU-80. This OSIP will provide aircraft platform growth flexibility with all upgrades to existing weapons, future weapons, and weapon subsystem upgrades to F/A-18A-F and EA-18G aircraft.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: Weapons are procured with Weapons Procurement, Navy (WPN) funding. Hardware and software modifications to the aircraft in order to utilize the weapons are funded with APN-5.

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0525 / F-18 Series	Modification Number / Title: 8 / Priority Stores Integration (OSIP 10-16)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Models of Systems Affected: F/A-18A-F and EA-18G	Modification Type: CAPABILITY IMPROVEMENT	Related RDT&E PEs:
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Financial Plan <small>(*) Indicates the modification is being installed organically and no installation funds are required.</small>	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Procurement												
1.1.1) ECP 87S1 / ECP 437 - SUU-63 - Organic ^(*)	134 / 11.503	27 / 2.007	15 / 2.448	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	176 / 15.958
1.1.2) ECP - SUU-79 - Organic ^(*)	- / -	- / -	100 / 1.530	200 / 3.121	- / -	200 / 3.121	200 / 3.184	200 / 3.250	200 / 3.312	200 / 3.393	1,908 / 19.072	3,008 / 36.862
1.1.3) ECP - SUU-80 - Organic ^(*)	150 / 1.116	- / -	210 / 1.626	200 / 1.578	- / -	200 / 1.578	50 / 0.403	- / -	- / -	- / -	- / -	610 / 4.723
1.1.4) ECP - M61 Gun - Organic ^(*)	100 / 0.714	150 / 1.092	150 / 1.114	200 / 1.515	- / -	200 / 1.515	64 / 0.487	- / -	- / -	- / -	- / -	664 / 4.922
1.1.5) ECP Gun Ballast Upgrade P/n 139006-7 - Organic ^(*)	- / -	10 / 0.350	10 / 0.357	10 / 0.364	- / -	10 / 0.364	- / -	- / -	- / -	- / -	- / -	30 / 1.071
1.2.1) Installation Kits N/R - Organic ^(*)	- / -	- / 2.000	- / 1.581	- / 0.780	- / -	- / 0.780	- / -	- / -	- / -	- / -	- / -	- / 4.361
2.1.1) H20 (SCS) - Organic ^(*)	- / -	- / 1.821	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.821
2.1.2) H22 (SCS) - Organic ^(*)	- / -	- / -	- / 3.018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 3.018
2.1.3) Software - Organic ^{(*) (20)}	- / 25.012	- / 1.845	- / 1.387	- / 1.611	- / -	- / 1.611	- / 4.520	- / 4.610	- / 4.703	- / 4.825	- / 9.739	- / 58.252
2.1.4) Software Archive - Organic ^(*)	- / 13.694	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 13.694
Subtotal: Procurement	- / 52.039	- / 9.115	- / 13.061	- / 8.969	- / -	- / 8.969	- / 8.594	- / 7.860	- / 8.015	- / 8.218	- / 28.811	- / 144.682
Support												
3.1) Data	- / 0.057	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.057
3.2) Support Equipment	- / -	- / 1.340	- / 1.545	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.885
3.3) ILS	- / 0.300	- / 0.124	- / 0.127	- / 0.129	- / -	- / 0.129	- / 0.132	- / 0.135	- / 0.137	- / 0.140	- / 0.143	- / 1.367
3.4) Other Support	- / 13.923	- / 2.780	- / 1.250	- / 1.275	- / -	- / 1.275	- / 1.301	- / 1.327	- / 1.354	- / 1.381	- / 4.507	- / 29.098
Subtotal: Support	- / 14.280	- / 4.244	- / 2.922	- / 1.404	- / -	- / 1.404	- / 1.433	- / 1.462	- / 1.491	- / 1.521	- / 4.650	- / 33.407
Installation												
Subtotal: Installation	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total												
Total Cost (Procurement + Support + Installation)	66.319	13.359	15.983	10.373	0.000	10.373	10.027	9.322	9.506	9.739	33.461	178.089

Footnotes:
⁽²⁰⁾ CE 2.1.5 FY2024 increase due to M-Code net enabled weapons integration

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0525 / F-18 Series	Modification Number / Title: 9 / Physiological Episode (PE) Mitigation (OSIP 13-19)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	167.675	33.620	50.432	49.442	0.000	49.442	36.425	36.744	37.326	37.543	38.451	487.658
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	167.675	33.620	50.432	49.442	0.000	49.442	36.425	36.744	37.326	37.543	38.451	487.658
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	167.675	33.620	50.432	49.442	0.000	49.442	36.425	36.744	37.326	37.543	38.451	487.658

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

This Operational, Safety and Improvement Program (OSIP) funds modifications to mitigate aircrew Physiological Episodes (PE) in F/A-18 and E/A-18G by correcting aircraft deficiencies and addressing safety and reliability issues via Engineering Change Proposals (ECPs). All aircraft systems that contribute to aircrew life support can be causal factors in physiological events. This includes the Onboard Oxygen Generating System (OBOGS) and all associated piping, valves, and monitors, the Environmental Control System (ECS) and all associated ducting, valves, and sensors, hardware and software, and aircrew alerting systems to provide cautions and warning of failures or potential hazards. Modifications to the aircraft will focus on addressing the highest likelihood causal factors for PEs. This includes the ECS system and cockpit structural improvements to improve the stability and control of cabin pressurization. It also includes OBOGS hardware and software improvements, including all aircraft and aircrew gear used to deliver and monitor breathing gas to ensure aircrew are receiving the optimized levels of oxygen during all regimes of flight, to include the possibility of a new MILSTAN 3050 compliant oxygen concentrator. This OSIP also addresses all aircrew flight gear that could affect aircrew performance and/or physiology prior to or during flight. Modifications will include Expanded Emergency Oxygen System and Automatic Backup Oxygen System (ABOS) to provide seamless delivery of oxygen to aircrew during emergency operations or systems failure; cabin altitude monitoring and alerting to warn aircrew to hazardous conditions or systems failures, including the Cabin Pressure and Monitoring Systems (CPOMS); and air quality monitoring and filtration systems to ensure adequacy and purity of aircrew breathing gas. Finally LSSI will allow an Enhanced Capability Concentrator (ECC) and Cabin Pressure and OBOGS Monitoring System (CPOMS) units to be integrated with the F/A-18 and EA-18G mission computer to provide appropriate cautions and warnings, maintenance information, and post flight data review capability.

Development Status/Major Milestones: Each change has been or will be tested prior to installation into the F-18 and E/A-18G.

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Exhibit P-3a, Individual Modification: PB 2024 Navy										Date: March 2023			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0525 / F-18 Series					Modification Number / Title: 9 / Physiological Episode (PE) Mitigation (OSIP 13-19)			
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: F-18 A-F and E/A-18G				Modification Type: Safety				Related RDT&E PEs:					
Financial Plan <small>(*) Indicates the modification is being installed organically and no installation funds are required.</small>	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
1.1.1) ECP 1233 Cabin Exit Air Closer - NonOrganic <i>Installation 1 of 4</i>	78 / 0.069	78 / 0.071	78 / 0.072	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	234 / 0.212	
1.1.2) ECP-6500 HEATER LINE UPGRADE KIT PROCUREMENT BLK I - NonOrganic <i>Installation 2 of 4</i>	26 / 0.391	32 / 0.490	40 / 0.625	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	98 / 1.506	
1.1.3) ECP-6500 HEATER LINE UPGRADE KIT PROCUREMENT Blk II - Organic ^(*)	70 / 1.051	41 / 0.628	86 / 1.345	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	197 / 3.024	
1.1.4) ECP-6506 CPOMS Improvements - NonOrganic ⁽²¹⁾ <i>Installation 3 of 4</i>	112 / 21.532	52 / 4.712	120 / 11.922	132 / 18.480	- / -	132 / 18.480	132 / 18.850	124 / 18.061	123 / 18.274	123 / 18.639	- / -	918 / 130.470	
1.1.5) ECP 6529 SENSOR LINE UPGRADE - NonOrganic <i>Installation 4 of 4</i>	26 / 0.392	- / -	78 / 1.223	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	104 / 1.615	
1.1.6) A-Kits Archived - Organic ^(*)	30 / 0.452	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	30 / 0.452	
2.1.1) ECP-6477 ECS Item 001 Primary Bleed Air Pressure Regulator & shutoff - Organic ^(*)	1,214 / 30.156	325 / 10.076	325 / 10.278	325 / 10.483	- / -	325 / 10.483	- / -	- / -	- / -	- / -	- / -	2,189 / 60.993	
2.1.2) ECP-6478 ECS Items 51 & 26 Improvements - Organic ^(*)	886 / 5.678	202 / 1.224	281 / 1.703	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1,369 / 8.605	
2.1.3) ECP 6488 - Secondary Bleed air regulator & Shut Off Valve Improvement - Organic ^(*)	60 / 17.924	- / -	105 / 3.150	105 / 3.213	- / -	105 / 3.213	105 / 3.277	105 / 3.343	105 / 3.410	105 / 3.478	- / -	690 / 37.795	
2.1.4) B-Kits Archived - Organic ^(*)	131 / 4.778	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	131 / 4.778	
2.2.1) Installation Equipment N/R - Organic ^(*)	- / 167.415	- / 5.838	- / 14.093	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 177.346	
Subtotal: Procurement	- / 149.838	- / 23.039	- / 34.411	- / 32.176	- / -	- / 32.176	- / 22.127	- / 21.404	- / 21.684	- / 22.117	- / 0.000	- / 326.796	
Support													
3.1) Support Equipment	- / -	- / 0.250	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.250	
3.2) Data	- / 0.220	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.220	
3.3) ILS	- / 1.406	- / 0.440	- / 0.448	- / 0.457	- / -	- / 0.457	- / 0.466	- / 0.476	- / 0.485	- / 0.495	- / 2.628	- / 17.301	
3.4) Other Support	- / 16.211	- / 6.603	- / 6.735	- / 6.303	- / -	- / 6.303	- / 6.428	- / 6.557	- / 6.687	- / 6.821	- / 20.710	- / 83.055	
Subtotal: Support	- / 17.837	- / 7.293	- / 7.183	- / 6.760	- / -	- / 6.760	- / 6.894	- / 7.033	- / 7.172	- / 7.316	- / 23.338	- / 90.826	
Installation													
Installation 1 of 4: ECP 1233 Cabin Exit Air Closer	- / -	- / 0.288	- / 0.294	- / 0.300	- / 0.000	- / 0.300	- / -	- / -	- / -	- / -	- / 0.000	- / 0.882	
Installation 2 of 4: ECP-6500 HEATER LINE UPGRADE KIT PROCUREMENT BLK I	- / -	- / 1.515	- / 1.902	- / 2.425	- / 0.000	- / 2.425	- / -	- / -	- / -	- / -	- / 0.000	- / 5.842	
Installation 3 of 4: ECP-6506 CPOMS Improvements	- / -	- / -	- / 6.642	- / 3.145	- / 0.000	- / 3.145	- / 7.404	- / 8.307	- / 8.470	- / 8.110	- / 15.113	- / 57.191	
Installation 4 of 4: ECP 6529 SENSOR LINE UPGRADE	- / -	- / 1.485	- / -	- / 4.636	- / 0.000	- / 4.636	- / -	- / -	- / -	- / -	- / 0.000	- / 16.121	

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0525 / F-18 Series	Modification Number / Title: 9 / Physiological Episode (PE) Mitigation (OSIP 13-19)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Models of Systems Affected: F-18 A-F and E/A-18G	Modification Type: Safety	Related RDT&E PEs:
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Financial Plan <small>(*) Indicates the modification is being installed organically and no installation funds are required.</small>	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>
<i>Subtotal: Installation</i>	- / 0.000	- / 3.288	- / 8.838	- / 10.506	- / -	- / 10.506	- / 7.404	- / 8.307	- / 8.470	- / 8.110	- / 15.113	- / 70.036
Total												
Total Cost (Procurement + Support + Installation)	167.675	33.620	50.432	49.442	0.000	49.442	36.425	36.744	37.326	37.543	38.451	487.658

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0525 / F-18 Series	Modification Number / Title: 9 / Physiological Episode (PE) Mitigation (OSIP 13-19)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Installation 1 of 4: ECP 1233 Cabin Exit Air Closer

Manufacturer Information

Manufacturer Name: Boeing	Manufacturer Location: St. Louis
Administrative Leadtime (in Months): 4	Production Leadtime (in Months): 9

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates	Jan 2022	Jan 2023					
Delivery Dates	Oct 2022	Oct 2023					

Installation Information

Method of Implementation: Navy Field Modification Team:: Installation Name: ECP 1233 Cabin Exit Air Closer

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	78 / 0.288	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	78 / 0.288
FY 2022	- / -	- / -	78 / 0.294	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	78 / 0.294
FY 2023	- / -	- / -	- / -	78 / 0.300	0 / 0.000	78 / 0.300	- / -	- / -	- / -	- / -	0 / 0.000	78 / 0.300
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	78 / 0.288	78 / 0.294	78 / 0.300	0 / 0.000	78 / 0.300	- / -	- / -	- / -	- / -	0 / 0.000	234 / 0.882

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot	
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4			
In	-	19	20	19	20	19	20	19	20	19	20	19	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Out	-	19	20	19	20	19	20	19	20	19	20	19	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0525 / F-18 Series	Modification Number / Title: 9 / Physiological Episode (PE) Mitigation (OSIP 13-19)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Installation 2 of 4: ECP-6500 HEATER LINE UPGRADE KIT PROCUREMENT BLK I

Manufacturer Information

Manufacturer Name: BOEING - ECP 6500 HEATER LINE	Manufacturer Location: ST. LOUIS, MO
Administrative Leadtime (in Months): 3	Production Leadtime (in Months): 10

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates	Dec 2021	Dec 2022					
Delivery Dates	Oct 2022	Oct 2023					

Installation Information

Method of Implementation: NAVY FIELD MOD TEAM:: Installation Name: ECP-6500 HEATER LINE UPGRADE KIT PROCUREMENT BLK I

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	26 / 1.515	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	26 / 1.515
FY 2022	- / -	- / -	32 / 1.902	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	32 / 1.902
FY 2023	- / -	- / -	- / -	40 / 2.425	0 / 0.000	40 / 2.425	- / -	- / -	- / -	- / -	0 / 0.000	40 / 2.425
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	26 / 1.515	32 / 1.902	40 / 2.425	0 / 0.000	40 / 2.425	- / -	- / -	- / -	- / -	0 / 0.000	98 / 5.842

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot				
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4						
In	-	6	7	6	7	8	8	8	8	10	10	10	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Out	-	6	7	6	7	8	8	8	8	10	10	10	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0525 / F-18 Series	Modification Number / Title: 9 / Physiological Episode (PE) Mitigation (OSIP 13-19)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Installation 3 of 4: ECP-6506 CPOMS Improvements

Manufacturer Information

Manufacturer Name: Boeing - ECP 6506 CPOMS	Manufacturer Location: St. Louis
Administrative Leadtime (in Months): 10	Production Leadtime (in Months): 18

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates	Jul 2022	Jul 2023	Jul 2024	Jul 2025	Jul 2026	Jul 2027	Jul 2028
Delivery Dates	Jan 2024	Jan 2025	Jan 2026	Jan 2027	Jan 2028	Jan 2029	Jan 2030

Installation Information

Method of Implementation: Contractor Field Teams:: Installation Name: ECP-6506 CPOMS Improvements

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	112 / 6.642	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	112 / 6.642
FY 2022	- / -	- / -	- / -	52 / 3.145	0 / 0.000	52 / 3.145	- / -	- / -	- / -	- / -	0 / 0.000	52 / 3.145
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	120 / 7.404	- / -	- / -	- / -	0 / 0.000	120 / 7.404
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	132 / 8.307	- / -	- / -	0 / 0.000	132 / 8.307
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	132 / 8.470	- / -	0 / 0.000	132 / 8.470
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	124 / 8.110	0 / 0.000	124 / 8.110
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	123 / 7.483	123 / 7.483
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	123 / 7.630	123 / 7.630
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	112 / 6.642	52 / 3.145	0 / 0.000	52 / 3.145	120 / 7.404	132 / 8.307	132 / 8.470	124 / 8.110	246 / 15.113	918 / 57.191

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	28	28	28	28	13	13	13	13	30	30	30	30	33	33	33	33	33	33	33	33	31	31	31	31	246	918
Out	-	-	-	-	-	28	28	28	28	13	13	13	13	30	30	30	30	33	33	33	33	33	33	33	33	31	31	31	31	246	918

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0525 / F-18 Series	Modification Number / Title: 9 / Physiological Episode (PE) Mitigation (OSIP 13-19)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Installation 4 of 4: ECP 6529 SENSOR LINE UPGRADE

Manufacturer Information

Manufacturer Name: BOEING - ECP 6529 SENSOR LINE	Manufacturer Location: ST. LOUIS, MO
Administrative Leadtime (in Months): 3	Production Leadtime (in Months): 10

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates		Dec 2022					
Delivery Dates		Oct 2023					

Installation Information

Method of Implementation: NAVY FIELD MOD TEAM:: Installation Name: ECP 6529 SENSOR LINE UPGRADE

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	26 / 1.485	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	26 / 1.485
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	78 / 4.636	0 / 0.000	78 / 4.636	- / -	- / -	- / -	- / -	0 / 0.000	78 / 4.636
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	26 / 1.485	- / -	78 / 4.636	0 / 0.000	78 / 4.636	- / -	- / -	- / -	- / -	0 / 0.000	104 / 6.121

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot		
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4				
In	-	6	6	7	7	-	-	-	-	20	20	20	18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Out	-	6	6	7	7	-	-	-	-	20	20	20	18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Footnotes:
⁽²¹⁾ CE 1.1.4 FY2024 CPOMS A-Kit unit cost increased to reflect approved Engineering Change Proposal (ECP 6506) for incorporation of Cybersecurity and unprecedented escalation of electrical components

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0525 / F-18 Series	Modification Number / Title: 10 / Communication Systems (OSIP 11-21)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	25.070	42.961	42.695	78.957	0.000	78.957	77.997	80.864	114.109	105.283	215.344	783.280
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	25.070	42.961	42.695	78.957	0.000	78.957	77.997	80.864	114.109	105.283	215.344	783.280
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	25.070	42.961	42.695	78.957	0.000	78.957	77.997	80.864	114.109	105.283	215.344	783.280

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The Digital Communications System (DCS) consists of an upgraded AN/ARC-210 Receiver Transmitter (RT) (with embedded digital message transfer capability and embedded communications security) installed in the F/A-18 and integrated with the F/A-18 weapons system (mission computer, controls and displays, and communication subsystem). The DCS utilizes pre-formatted messages to communicate with standard United States Marine Corps, United States Navy, and United States Air Force digital communications devices to facilitate close air support, deep air strike, and tactical air control missions. Joint Staff has specified new requirements for close air support platforms to improve interoperability between air and ground units in Digitally-Aided Close Air Support (DACAS) missions. These requirements are being satisfied with the upgrade of the DCS radio to the ARC-210 RT-1990 radio. DCS reduces voice communications requirements which tend to be slow, inaccurate, and susceptible to Meaconing, Interference, Jamming, and Intrusion. DCS will enhance mission effectiveness by decreasing pilot workload which allows the pilot more time to counter increased threat capabilities (operational requirements document# 486-88-98). The RT-1990 radio also supports the North Atlantic Treaty Organization (NATO) standard anti-jam waveform, Second generation Anti-jam Tactical UHF radio for NATO (SATURN), and will greatly improve communication in a jamming environment as compared to current anti-jam waveforms. The next version of ARC-210, RT-1990A, and the next version of the Comm1 external encryptor, KY-58M, will support National Security Agency cryptographic modernization mandates and the instruction CJCSI 6510.02E Cryptographic Modernization Planning. This operational safety improvement program will also be used to address parts obsolescence issues and to perform non-recurring work associated with network centric operations and interoperability requirements. The RT-2036 is the next version of the ARC-210, and supports Mobile User Objective System (MUOS) SATCOM. The RT-1990A also supports SATCOM along with the installation of corresponding ancillary equipment, which is planned for retrofit in all Lot 26 and up Super Hornets and Growlers. The Audio Management System (AMS) is required for the integration of the RT-1990A in COMM1.

This Operational, Safety and Improvement Program (OSIP) also funds systems that provide secure digital data link communications and Tactical Air Navigation (TACAN) capabilities to aircraft. The Multifunctional Information Distribution System (MIDS) Joint Tactical Radio System (JTRS) is an Engineering Change Proposal (ECP) upgrade to the MIDS-LVT (Low Volume Terminal) and offers the same functionality as MIDS-LVT (Link 16, tactical air navigation, and digital voice) in a software-controlled architecture, JTRS-compliant format, and provides the option of future expandability to host follow-on advanced tactical data links (i.e. Tactical Targeting Network Technology (TTNT)). MIDS JTRS is approved for retrofit in Lots 26-31 F/A-18E/F and EA-18G aircraft and is funded for retrofit incorporation as MIDS JTRS 4-Net Concurrent Multi-Netting and Concurrent Contention Receive (CMN-4) in all MIDS-capable Navy F/A-18 and EA-18G aircraft. MIDS JTRS provides cryptographic modernization and frequency remapping capability. CMN-4 provides increased Link 16 capacity to support Navy Integrated Fire Control-Counter Air. With either MIDS-LVT or MIDS JTRS installed, F/A-18 is interoperable with all Link 16 equipped platforms in United States and Allied Nations. Retrofit incorporation of MIDS JTRS TTNT is planned for all EA-18G aircraft (Lot 30 and up) as part of Integrated Capability Package-3 (ICP-3) and for all Lot 26 and up F/A-18E/F aircraft. TTNT provides Internet Protocol (IP) and non-IP network connectivity at significantly increased throughput capacity compared to that of Link 16. This OSIP will also be used to perform efforts to address parts obsolescence and tactical modernization (MIDS Modernization Increments). Single MIDS Operational Requirements Document # 642-61-04 and MIDS JTRS Capability Production Document Change 1 Version 2.0 are germane. The Communication System Controller (CSC) controls many of the discrete signals that go to the MIDS terminal.

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Exhibit P-3a, Individual Modification: PB 2024 Navy										Date: March 2023			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0525 / F-18 Series					Modification Number / Title: 10 / Communication Systems (OSIP 11-21)			
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: F/A-18 E/F & EA-18G				Modification Type: Capability Improvement				Related RDT&E PEs:					
Financial Plan		Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
(*) Indicates the modification is being installed organically and no installation funds are required.		Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Procurement													
1.1.1) SATCOM (ECP6486) E/F - NonOrganic Installation 1 of 5		85 / 3.017	50 / 5.650	25 / 3.774	50 / 7.699	- / -	50 / 7.699	50 / 7.853	50 / 8.010	50 / 8.170	12 / 2.000	- / -	372 / 46.173
1.1.2) SATCOM (ECP6486) G - NonOrganic Installation 2 of 5		53 / 0.741	32 / 2.912	32 / 2.970	32 / 3.030	- / -	32 / 3.030	13 / 1.255	- / -	- / -	- / -	- / -	162 / 10.908
1.1.3) COMM 1 Gen 5 (ECP6512) - NonOrganic Installation 3 of 5		- / -	18 / 0.216	54 / 0.661	70 / 0.874	- / -	70 / 0.874	70 / 0.891	70 / 0.909	70 / 0.924	70 / 0.942	44 / 0.604	466 / 6.021
1.1.4) TTNT A-Kit (ECP6471) - NonOrganic Installation 4 of 5		- / -	- / -	- / -	26 / 2.340	- / -	26 / 2.340	20 / 1.836	25 / 2.341	30 / 2.865	35 / 3.410	242 / 20.990	378 / 33.782
2.1.1) Amplifiers (HPA/LNA) (ECP6486) E-F - Organic ^(*)		- / -	20 / 1.500	25 / 1.912	35 / 2.785	- / -	35 / 2.785	35 / 2.841	35 / 2.898	40 / 3.378	40 / 3.446	133 / 12.183	363 / 30.943
2.1.2) Amplifiers (HPA/LNA) (ECP6486) B Kits - G - Organic ^(*)		8 / 0.600	32 / 2.448	32 / 2.496	32 / 2.546	- / -	32 / 2.546	41 / 3.328	17 / 1.407	- / -	- / -	- / -	162 / 12.825
2.1.3) SATCOM MUOS Antenna (ECP6486) E/F - Organic ^(*)		18 / 1.440	72 / 5.875	72 / 5.990	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	162 / 13.305
2.1.4) SATCOM MUOS Antenna (ECP6486) G - Organic ^(*)		8 / 0.489	32 / 2.560	32 / 2.611	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	72 / 5.660
2.1.5) BLOS Communication - Organic ^(*)		- / -	- / -	- / -	104 / 8.776	- / -	104 / 8.776	104 / 8.952	104 / 9.129	104 / 9.311	104 / 9.496	- / -	520 / 45.664
2.1.6) RT-2036 Gen 6 Radio (ECP1214-18) - Organic ^(*)		- / -	- / -	- / -	82 / 7.335	- / -	82 / 7.335	82 / 7.482	82 / 7.631	82 / 7.784	82 / 7.940	236 / 22.402	646 / 60.574
2.1.7) AMS (ECP6507) - Organic ^(*)		- / -	70 / 3.777	72 / 2.782	70 / 2.759	- / -	70 / 2.759	70 / 2.814	70 / 2.871	70 / 2.928	70 / 2.986	114 / 4.999	606 / 25.916
2.1.8) E/F/G CMN-4 Upgrades to TTNT (ECP6471) - Organic ^(*)		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	20 / 7.036	20 / 7.177	33 / 11.899	73 / 26.112
2.1.9) ECP577R3 - NonOrganic Installation 5 of 5		8 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	8 / 0.000
2.1.10) Communication System Obsolescence - Organic ^(*)		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 18.230	- / 23.481	- / -	- / 41.711
2.2.1) Install Equipment N/R - Organic ^(*)		- / 4.153	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 4.153
2.2.2) H16 (SCS) - Organic ^(*)		- / 3.153	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 3.153
2.2.3) H18 (SCS) - Organic ^(*)		- / -	- / 1.954	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.954
2.2.4) H20 (SCS) - Organic ^{(*) (22)}		- / -	- / 1.099	- / 1.121	- / 2.785	- / -	- / 2.785	- / 2.847	- / 2.897	- / -	- / -	- / -	- / 10.749
2.2.5) H22 (SCS) - Organic ^(*)		- / -	- / -	- / -	- / 3.862	- / -	- / 3.862	- / 3.083	- / 5.500	- / 7.513	- / -	- / -	- / 19.958
2.2.6) H24 (SCS) - Organic ^(*)		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 6.365	- / 6.520	- / 6.480	- / 19.365
2.2.7) Software Organic - Organic ^{(*) (23)}		- / -	- / 0.695	- / 0.709	- / 4.930	- / -	- / 4.930	- / 6.212	- / 8.851	- / 7.650	- / 7.803	- / 12.373	- / 49.223
Subtotal: Procurement		- / 13.593	- / 28.686	- / 25.026	- / 49.721	- / -	- / 49.721	- / 49.394	- / 52.444	- / 82.154	- / 75.201	- / 91.930	- / 468.149
Support													
3.1) Data		- / 0.505	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.505
3.2) ILS		- / 0.258	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.258

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0525 / F-18 Series	Modification Number / Title: 10 / Communication Systems (OSIP 11-21)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Models of Systems Affected: F/A-18 E/F & EA-18G	Modification Type: Capability Improvement	Related RDT&E PEs:
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Financial Plan <small>(*) Indicates the modification is being installed organically and no installation funds are required.</small>	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
3.3) Other Support ⁽²⁴⁾	- / 10.224	- / 10.428	- / 10.637	- / 12.857	- / -	- / 12.857	- / 13.114	- / 13.376	- / 13.640	- / 13.910	- / 66.678	- / 164.864
<i>Subtotal: Support</i>	- / 10.987	- / 10.428	- / 10.637	- / 12.857	- / -	- / 12.857	- / 13.114	- / 13.376	- / 13.640	- / 13.910	- / 66.678	- / 165.627
Installation												
<i>Installation 1 of 5:</i> SATCOM (ECP6486) E/F	- / 0.243	- / 3.714	- / 2.428	- / 6.314	- / 0.000	- / 6.314	- / 5.539	- / 4.204	- / 6.700	- / 6.834	- / 12.660	- / 48.636
<i>Installation 2 of 5:</i> SATCOM (ECP6486) G	- / 0.233	- / 0.119	- / 3.884	- / 3.962	- / 0.000	- / 3.962	- / 4.037	- / 4.119	- / 4.084	- / -	- / 0.000	- / 20.438
<i>Installation 3 of 5:</i> COMM 1 Gen 5 (ECP6512)	- / -	- / -	- / 0.720	- / 2.203	- / 0.000	- / 2.203	- / 2.913	- / 2.971	- / 3.031	- / 3.091	- / 5.175	- / 20.104
<i>Installation 4 of 5:</i> TTNT A-Kit (ECP6471)	- / -	- / -	- / -	- / 3.900	- / 0.000	- / 3.900	- / 3.000	- / 3.750	- / 4.500	- / 6.247	- / 38.901	- / 60.298
<i>Installation 5 of 5:</i> ECP577R3	- / 0.014	- / 0.014	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 0.028
<i>Subtotal: Installation</i>	- / 0.490	- / 3.847	- / 7.032	- / 16.379	- / -	- / 16.379	- / 15.489	- / 15.044	- / 18.315	- / 16.172	- / 56.736	- / 149.504
Total												
Total Cost (Procurement + Support + Installation)	25.070	42.961	42.695	78.957	0.000	78.957	77.997	80.864	114.109	105.283	215.344	783.280

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0525 / F-18 Series	Modification Number / Title: 10 / Communication Systems (OSIP 11-21)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Installation 1 of 5: SATCOM (ECP6486) E/F

Manufacturer Information

Manufacturer Name: Boeing	Manufacturer Location: St. Louis, MO
Administrative Leadtime (in Months): 3	Production Leadtime (in Months): 28

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates	Dec 2021	Dec 2022	Dec 2023	Dec 2024	Dec 2025	Dec 2026	Dec 2027
Delivery Dates	Apr 2024	Apr 2025	Apr 2026	Apr 2027	Apr 2028	Apr 2029	Apr 2030

Installation Information

Method of Implementation: NAVY FIELD MOD TEAM:: Installation Name: SATCOM (ECP6486) E/F

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	7 / 0.243	30 / 3.714	20 / 2.428	28 / 3.536	0 / 0.000	28 / 3.536	- / -	- / -	- / -	- / -	0 / 0.000	85 / 9.921
FY 2022	- / -	- / -	- / -	22 / 2.778	0 / 0.000	22 / 2.778	28 / 3.607	- / -	- / -	- / -	0 / 0.000	50 / 6.385
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	15 / 1.932	10 / 1.314	- / -	- / -	0 / 0.000	25 / 3.246
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	22 / 2.890	28 / 3.752	- / -	0 / 0.000	50 / 6.642
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	22 / 2.948	28 / 3.827	0 / 0.000	50 / 6.775
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	22 / 3.007	28 / 3.904	50 / 6.911
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	50 / 7.049	50 / 7.049
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	12 / 1.707	12 / 1.707
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	7 / 0.243	30 / 3.714	20 / 2.428	50 / 6.314	0 / 0.000	50 / 6.314	43 / 5.539	32 / 4.204	50 / 6.700	50 / 6.834	90 / 12.660	372 / 48.636

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	7	7	7	8	8	5	5	5	5	8	8	16	18	14	14	7	8	5	5	10	12	14	14	10	12	14	14	10	12	90	372
Out	7	7	7	8	8	5	5	5	5	8	8	16	18	14	14	7	8	5	5	10	12	14	14	10	12	14	14	10	12	90	372

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0525 / F-18 Series	Modification Number / Title: 10 / Communication Systems (OSIP 11-21)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Installation 2 of 5: SATCOM (ECP6486) G

Manufacturer Information

Manufacturer Name: Boeing	Manufacturer Location: St. Louis, MO
Administrative Leadtime (in Months): 3	Production Leadtime (in Months): 28

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates	Dec 2021	Dec 2022	Dec 2023	Dec 2024			
Delivery Dates	Apr 2024	Apr 2025	Apr 2026	Apr 2027			

Installation Information

Method of Implementation: NAVY FIELD MOD TEAM:: Installation Name: SATCOM (ECP6486) G

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	2 / 0.233	1 / 0.119	32 / 3.884	18 / 2.229	0 / 0.000	18 / 2.229	- / -	- / -	- / -	- / -	0 / 0.000	53 / 6.465
FY 2022	- / -	- / -	- / -	14 / 1.733	0 / 0.000	14 / 1.733	18 / 2.273	- / -	- / -	- / -	0 / 0.000	32 / 4.006
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	14 / 1.764	18 / 2.313	- / -	- / -	0 / 0.000	32 / 4.077
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	14 / 1.806	18 / 2.368	- / -	0 / 0.000	32 / 4.174
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	13 / 1.716	- / -	0 / 0.000	13 / 1.716
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	2 / 0.233	1 / 0.119	32 / 3.884	32 / 3.962	0 / 0.000	32 / 3.962	32 / 4.037	32 / 4.119	31 / 4.084	- / -	0 / 0.000	162 / 20.438

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	2	1	-	-	-	16	8	8	-	9	9	7	7	9	9	7	7	9	9	7	7	9	9	7	6	-	-	-	-	-	162
Out	2	1	-	-	-	16	8	8	-	9	9	7	7	9	9	7	7	9	9	7	7	9	9	7	6	-	-	-	-	-	162

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0525 / F-18 Series	Modification Number / Title: 10 / Communication Systems (OSIP 11-21)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Installation 3 of 5: COMM 1 Gen 5 (ECP6512)

Manufacturer Information

Manufacturer Name: TBD	Manufacturer Location: TBD
Administrative Leadtime (in Months): 3	Production Leadtime (in Months): 10

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates	Dec 2021	Dec 2022	Dec 2023	Dec 2024	Dec 2025	Dec 2026	Dec 2027
Delivery Dates	Oct 2022	Oct 2023	Oct 2024	Oct 2025	Oct 2026	Oct 2027	Oct 2028

Installation Information

Method of Implementation: NAVY FIELD MOD TEAM:: Installation Name: COMM 1 Gen 5 (ECP6512)

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	18 / 0.720	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	18 / 0.720
FY 2023	- / -	- / -	- / -	54 / 2.203	0 / 0.000	54 / 2.203	- / -	- / -	- / -	- / -	0 / 0.000	54 / 2.203
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	70 / 2.913	- / -	- / -	- / -	0 / 0.000	70 / 2.913
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	70 / 2.971	- / -	- / -	0 / 0.000	70 / 2.971
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	70 / 3.031	- / -	0 / 0.000	70 / 3.031
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	70 / 3.091	0 / 0.000	70 / 3.091
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	70 / 3.153	70 / 3.153
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	44 / 2.022	44 / 2.022
Total	- / -	- / -	18 / 0.720	54 / 2.203	0 / 0.000	54 / 2.203	70 / 2.913	70 / 2.971	70 / 3.031	70 / 3.091	114 / 5.175	466 / 20.104

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	8	5	5	-	18	18	18	-	17	17	18	18	17	17	18	18	17	17	18	18	17	17	18	18	114	466
Out	-	-	-	-	-	8	5	5	-	18	18	18	-	17	17	18	18	17	17	18	18	17	17	18	18	17	17	18	18	114	466

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0525 / F-18 Series	Modification Number / Title: 10 / Communication Systems (OSIP 11-21)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Installation 4 of 5: TTNT A-Kit (ECP6471)

Manufacturer Information

Manufacturer Name: TBD	Manufacturer Location: TBD
Administrative Leadtime (in Months): 3	Production Leadtime (in Months): 1

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates			Dec 2023	Dec 2024	Dec 2025	Dec 2026	Dec 2027
Delivery Dates			Jan 2024	Jan 2025	Jan 2026	Jan 2027	Jan 2028

Installation Information

Method of Implementation: Navy Field Modification Team:: Installation Name: TTNT A-Kit (ECP6471)

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	26 / 3.900	0 / 0.000	26 / 3.900	- / -	- / -	- / -	- / -	0 / 0.000	26 / 3.900
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	20 / 3.000	- / -	- / -	- / -	0 / 0.000	20 / 3.000
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	25 / 3.750	- / -	- / -	0 / 0.000	25 / 3.750
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	30 / 4.500	- / -	0 / 0.000	30 / 4.500
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	35 / 6.247	0 / 0.000	35 / 6.247
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	242 / 38.901	242 / 38.901
Total	- / -	- / -	- / -	26 / 3.900	0 / 0.000	26 / 3.900	20 / 3.000	25 / 3.750	30 / 4.500	35 / 6.247	242 / 38.901	378 / 60.298

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	8	9	9	-	6	7	7	-	8	8	9	-	10	10	10	-	10	12	13	242	378
Out	-	-	-	-	-	-	-	-	-	-	8	9	9	-	6	7	7	-	8	8	9	-	10	10	10	-	10	12	13	242	378

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0525 / F-18 Series	Modification Number / Title: 10 / Communication Systems (OSIP 11-21)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Installation 5 of 5: ECP577R3

Manufacturer Information

Manufacturer Name: Not Specified.	Manufacturer Location: Not Specified..
Administrative Leadtime (in Months): 0	Production Leadtime (in Months): 0

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates							
Delivery Dates							

Installation Information

Method of Implementation: NAVY FIELD MOD TEAM:: Installation Name: ECP577R3

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	4 / 0.014	4 / 0.014	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	8 / 0.028
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	4 / 0.014	4 / 0.014	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	8 / 0.028

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot	
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4			
In	4	1	1	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8
Out	4	1	1	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8

Footnotes:
 (22) CE 2.2.4 FY2024 H20 software increase due to incorporation of Beyond Line of Sight (BLOS) ECP
 (23) CE 2.2.7 Software line includes Concurrent Multi-Netting (CMN-4) for Tactical Targeting Network Technology (TTNT)

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0525 / F-18 Series	Modification Number / Title: 10 / Communication Systems (OSIP 11-21)
ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:	
⁽²⁴⁾ CE 3.3 FY24 Other Support increase due to start of TTNT and BLOS kit procurements.		

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0525 / F-18 Series	Modification Number / Title: 11 / EOIR Modernization (OSIP 003-24)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	0.000	0.000	0.000	112.507	0.000	112.507	77.751	129.810	111.497	43.447	30.030	505.042
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	0.000	0.000	0.000	112.507	0.000	112.507	77.751	129.810	111.497	43.447	30.030	505.042
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	0.000	0.000	0.000	112.507	0.000	112.507	77.751	129.810	111.497	43.447	30.030	505.042

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Provides F/A-18 E/F aircraft with the ability to detect, track, and engage air and ground targets, at extended ranges, using the infrared and visible light spectrums. Changes in F/A-18 air-to-air employment and continual improvements to air-to-ground standoff/precision strike weapons necessitate increased pod performance and reliability to support longer required detection/engagement distances. The EOIR Modernization program will utilize Non-developmental item (NDI) Pods that may utilize new capabilities or current capability enhancements that may be included with the procurement or required due to technology advancement to improve pod reliability and maintainability.

OSIP 03-24 requirements can be found in OSIP 12-01 for FY23 and prior. This OSIP was established in FY2024 in order to provide greater transparency of EOIR Modernization efforts.

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy										Date: March 2023				
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0525 / F-18 Series					Modification Number / Title: 11 / EOIR Modernization (OSIP 003-24)				
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:							
Models of Systems Affected: F/A-18A+/C/D/E/F				Modification Type: CAPABILITY IMPROVEMENTS AND MODERNIZATION				Related RDT&E PEs:						
Financial Plan <small>(*) Indicates the modification is being installed organically and no installation funds are required.</small>	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total		
	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>		
Procurement														
1.1.1) LITENING Station 6 A-Kit - NonOrganic <i>Installation 1 of 2</i>	- / -	- / -	- / -	48 / 1.440	- / -	48 / 1.440	48 / 1.469	48 / 1.498	48 / 1.528	48 / 1.559	144 / 4.866	384 / 12.360		
1.1.2) EOIR Digital Video ECPXXXX - NonOrganic <i>Installation 2 of 2</i>	- / -	- / -	- / -	- / -	- / -	- / -	35 / 1.750	35 / 1.785	35 / 1.821	35 / 1.857	105 / 5.797	245 / 13.010		
1.2.1) Installation Kits N/R LITENING - Organic ^(*)	- / -	- / -	- / -	- / 8.200	- / -	- / 8.200	- / 1.200	- / 1.600	- / 1.600	- / -	- / -	- / 12.600		
1.2.2) Installation Kits N/R Station 5 - Organic ^{(*) (25)}	- / -	- / -	- / -	- / 7.058	- / -	- / 7.058	- / -	- / -	- / -	- / -	- / -	- / 7.058		
1.2.3) Installation Kits N/R Station 6 - Organic ^{(*) (26)}	- / -	- / -	- / -	- / 7.800	- / -	- / 7.800	- / -	- / -	- / -	- / -	- / -	- / 7.800		
2.1.1) LITENING POD Bkit - Organic ^(*)	- / -	- / -	- / -	23 / 50.600	- / -	23 / 50.600	21 / 47.124	42 / 96.133	26 / 65.714	- / -	- / -	112 / 259.571		
2.1.2) LITENING POD Adapter Unit - Organic ^(*)	- / -	- / -	- / -	15 / 1.500	- / -	15 / 1.500	83 / 8.466	92 / 9.571	155 / 16.449	155 / 16.778	- / -	500 / 52.764		
2.1.3) LDP Conversion B Kit - Organic ^{(*) (27)}	- / -	- / -	- / -	48 / 16.800	- / -	48 / 16.800	25 / 8.925	25 / 9.104	40 / 14.857	40 / 15.154	- / -	178 / 64.840		
2.2.1) Software - Organic ^{(*) (28)}	- / -	- / -	- / -	- / 12.500	- / -	- / 12.500	- / -	- / -	- / -	- / -	- / -	- / 12.500		
Subtotal: Procurement	- / 0.000	- / -	- / -	- / 105.898	- / -	- / 105.898	- / 68.934	- / 119.691	- / 101.969	- / 35.348	- / 10.663	- / 442.503		
Support														
3.1) ILS	- / -	- / -	- / -	- / 0.941	- / -	- / 0.941	- / 0.960	- / 0.979	- / 0.852	- / 0.678	- / 2.183	- / 6.593		
3.2) Other Support	- / -	- / -	- / -	- / 3.748	- / -	- / 3.748	- / 4.184	- / 5.392	- / 4.853	- / 3.522	- / 5.012	- / 26.711		
Subtotal: Support	- / 0.000	- / -	- / -	- / 4.689	- / -	- / 4.689	- / 5.144	- / 6.371	- / 5.705	- / 4.200	- / 7.195	- / 33.304		
Installation														
Installation 1 of 2: LITENING Station 6 A-Kit	- / -	- / -	- / -	- / 1.920	- / 0.000	- / 1.920	- / 1.958	- / 1.998	- / 2.038	- / 2.078	- / 6.488	- / 16.480		
Installation 2 of 2: EOIR Digital Video ECPXXXX	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.715	- / 1.750	- / 1.785	- / 1.821	- / 5.684	- / 12.755		
Subtotal: Installation	- / 0.000	- / -	- / -	- / 1.920	- / -	- / 1.920	- / 3.673	- / 3.748	- / 3.823	- / 3.899	- / 12.172	- / 29.235		
Total														
Total Cost (Procurement + Support + Installation)	0.000	0.000	0.000	112.507	0.000	112.507	77.751	129.810	111.497	43.447	30.030	505.042		

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0525 / F-18 Series	Modification Number / Title: 11 / EOIR Modernization (OSIP 003-24)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Installation 1 of 2: LITENING Station 6 A-Kit

Manufacturer Information

Manufacturer Name: TBD	Manufacturer Location: TBD
Administrative Leadtime (in Months): 3	Production Leadtime (in Months): 3

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates			Dec 2023	Dec 2024	Dec 2025	Dec 2026	Dec 2027
Delivery Dates			Mar 2024	Mar 2025	Mar 2026	Mar 2027	Mar 2028

Installation Information

Method of Implementation: NAVY FIELD MOD TEAM:: Installation Name: LITENING Station 6 A-Kit

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	48 / 1.920	0 / 0.000	48 / 1.920	- / -	- / -	- / -	- / -	0 / 0.000	48 / 1.920
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	48 / 1.958	- / -	- / -	- / -	0 / 0.000	48 / 1.958
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	48 / 1.998	- / -	- / -	0 / 0.000	48 / 1.998
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	48 / 2.038	- / -	0 / 0.000	48 / 2.038
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	48 / 2.078	0 / 0.000	48 / 2.078
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	144 / 6.488	144 / 6.488
Total	- / -	- / -	- / -	48 / 1.920	0 / 0.000	48 / 1.920	48 / 1.958	48 / 1.998	48 / 2.038	48 / 2.078	144 / 6.488	384 / 16.480

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	5	21	22	-	5	21	22	-	5	21	22	-	5	21	22	-	5	21	22	144	384
Out	-	-	-	-	-	-	-	-	-	-	5	21	22	-	5	21	22	-	5	21	22	-	5	21	22	-	5	21	22	144	384

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy **Date:** March 2023

Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0525 / F-18 Series	Modification Number / Title: 11 / EOIR Modernization (OSIP 003-24)
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ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Installation 2 of 2: EOIR Digital Video ECPXXXX

Manufacturer Information

Manufacturer Name: TBD	Manufacturer Location: TBD
Administrative Leadtime (in Months): 3	Production Leadtime (in Months): 3

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates				Dec 2024	Dec 2025	Dec 2026	Dec 2027
Delivery Dates				Mar 2025	Mar 2026	Mar 2027	Mar 2028

Installation Information

Method of Implementation: NAVY FIELD MOD TEAM:: Installation Name: EOIR Digital Video ECPXXXX

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	35 / 1.715	- / -	- / -	- / -	0 / 0.000	35 / 1.715
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	35 / 1.750	- / -	- / -	0 / 0.000	35 / 1.750
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	35 / 1.785	- / -	0 / 0.000	35 / 1.785
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	35 / 1.821	0 / 0.000	35 / 1.821
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	105 / 5.684	105 / 5.684
Total	- / -	- / -	- / -	- / -	- / -	- / -	35 / 1.715	35 / 1.750	35 / 1.785	35 / 1.821	105 / 5.684	245 / 12.755

Installation Schedule

PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	-	-	-	9	13	13	-	9	13	13	-	9	13	13	-	9	13	13	105	245
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	9	13	13	-	9	13	13	-	9	13	13	-	9	13	13	105	245

Footnotes:

- (25) CE 1.2.2 FY2024 Non-Recurring Engineering (NRE) efforts required to finalize LITENING ECP and verification efforts for integration of Station 5 on the aircraft.
- (26) CE 1.2.3 FY2024 Non-Recurring Engineering (NRE) efforts required to finalize LITENING ECP and verification efforts for integration of Station 6 on the aircraft.
- (27) CE 2.1.3 B-kits are to modify G4 LITENING pods to LITENING Digital Port (LDP) configuration

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0525 / F-18 Series	Modification Number / Title: 11 / EOIR Modernization (OSIP 003-24)
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:
⁽²⁸⁾ CE 2.2.1 FY24 software load in support of Digital Video procurement		

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy	Date: March 2023
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Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0525 / F-18 Series	Modification Number / Title: 12 / Inactive OSIPs
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ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	8,470.045	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	8,470.045
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) <i>(\$ in Millions)</i>	8,470.045	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	8,470.045
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	8,470.045	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	8,470.045

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Dollars)</i>	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Inactive OSIPs prior year totals.

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0525 / F-18 Series	Modification Number / Title: 12 / Inactive OSIPs

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Models of Systems Affected: [No Model Specified]	Modification Type: TBD	Related RDT&E PEs:
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Financial Plan <small>(*) Indicates the modification is being installed organically and no installation funds are required.</small>	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Procurement												
1.1.1) Inactive OSIPs - Organic ^(*) (29)	- / 8,356.608	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 8,356.608
1.1.2) FY 2020 Enacted Rescissions - Organic ^(*)	- / 113.437	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 113.437
<i>Subtotal: Procurement</i>	<i>- / 8,470.045</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / 0.000</i>	<i>- / 8,470.045</i>
Installation												
<i>Subtotal: Installation</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>
Total												
Total Cost (Procurement + Support + Installation)	8,470.045	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	8,470.045

Footnotes:

⁽²⁹⁾ CE 1.1.1 Inactive OSIPs consist of the following archived OSIPs: DON24 archived OSIP 10-99 in the amount of \$237,207 (Now OSIP 11-21) DON23 archived OSIP 11-84 in the amount of \$1,461.535 (moved to BLI 0502 OSIP 10-21) DON23 archived OSIP 11-99 in the amount of \$1,483.388 (moved to BLI 0502) DON23 archived OSIP 14-03 in the amount of \$1,214.079 (moved to BLI 0505) DON23 archived OSIP 11-10 in the amount of \$314.803 (moved to BLI 0505) DON23 archived OSIP 11-13 in the amount of \$683.664 (moved to BLI 0505) DON23 archived OSIP 20-14 in the amount of \$499.75 (moved to BLI 0505) DON23 archived OSIP 04-14 in the amount of \$370.255 (moved to BLI 0515)

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2024 Navy **Date:** March 2023

Appropriation / Budget Activity / Budget Sub Activity: 1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft	P-1 Line Item Number / Title: 0528 / H-53 Series
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	1,857.579	108.415	40.151	41.414	0.000	41.414	44.637	44.903	163.170	169.676	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	1,857.579	108.415	40.151	41.414	0.000	41.414	44.637	44.903	163.170	169.676	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	1,857.579	108.415	40.151	41.414	0.000	41.414	44.637	44.903	163.170	169.676	Continuing	Continuing

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

H-53 Series line item funds modifications to the 136 CH-53E, 31 MH-53E, and 9 CH-53K aircraft. The aircraft inventories to be modified vary by Operational, Safety, and Improvement Program, dependent on kit modification production lead-time. The CH-53E is a seven blade main rotor and a four-blade canted tail rotor helicopter powered by three T64-GE-416/416A/419/419A turbo shaft engines. The CH-53E aircraft are capable of both land and ship based transport of heavy equipment, supplies, and personnel. The MH-53E is similar to the CH-53E with additional capabilities for Airborne Mine Countermeasures, Vertical On-Board Delivery, and Special Missions which require longer range and more precise navigation than that of the CH-53E. The overall goal of the modifications budgeted in FY22 is increased communication and navigation, integrated mechanical diagnostics and condition based maintenance, propulsion and power, degraded visual environment mitigation, survivability and sustainment initiatives, and fleet operation and safety performance in the H-53 community. This line item also funds the CH-53K "King Stallion" modifications. The CH-53K is designed to address CH-53E performance degradation, fatigue life, interoperability, maintenance supportability, and other operational concerns and support Marine Air-Ground Task Force heavy-lift requirements in the 21st century joint environment, and is the only heavy-lift platform that can lift the Marine Air-Ground Task Force ashore. The CH-53K provides significant improvements in range and payload, performance, cargo handling, turn-around times, reliability and maintainability, interoperability and survivability.

Notes:

1. Navy active and Navy reserve: CH-53E: 129 active and 7 reserve aircraft; MH-53E: 24 active and 7 reserve aircraft; and 9 CH-53K active aircraft comprise the H-53 fleet. Navy active and Navy reserve funds have been budgeted to provide capability to all 176 H-53 aircraft

Secondary Distribution	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028
Navy									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	107.071	39.089	40.348	-	40.348	43.550	43.794	162.069	168.552
NR									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	1.344	1.062	1.066	-	1.066	1.087	1.109	1.101	1.124
Total: Secondary Distribution									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	108.415	40.151	41.414	-	41.414	44.637	44.903	163.170	169.676

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Exhibit P-40, Budget Line Item Justification: PB 2024 Navy **Date: March 2023**

Appropriation / Budget Activity / Budget Sub Activity: 1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft **P-1 Line Item Number / Title:** 0528 / H-53 Series

ID Code (A=Service Ready, B=Not Service Ready): A **Program Elements for Code B Items:** N/A **Other Related Program Elements:** N/A

Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	1 / INTEGRATED MECH DIAG (OSIP 007-98) (SAFETY, READINESS, AND MAINTAINABILITY)				- / 210.608	- / 5.022	- / 0.000	- / 2.464	- / 0.000	- / 2.464
P-3a	2 / NACELLES (OSIP 009-01) (MISSION/MISSION ENHANCEMENT)				- / 65.427	- / 0.680	- / 0.847	- / 0.821	- / 0.000	- / 0.821
P-3a	3 / H-53 ERIP (OSIP 010-05) (SAFETY, READINESS AND MAINTAINABILITY)				- / 252.599	- / 10.170	- / 0.000	- / 0.000	- / 0.000	- / 0.000
P-3a	4 / H-53 A/C SUSTAINMENT (OSIP 008-06) (MISSION/ PERFORMANCE SUSTAINMENT)				- / 345.055	- / 7.343	- / 4.098	- / 3.820	- / 0.000	- / 3.820
P-3a	5 / H-53 AVIONICS (OSIP 031-12) (MISSION/PERFORMANCE SUSTAINMENT)				- / 106.973	- / 20.927	- / 6.629	- / 3.121	- / 0.000	- / 3.121
P-3a	6 / Correction of Deficiencies (OSIP 007-19) (Safety, Reliability, Improved Mission Capability)			390	- / 32.345	- / 64.273	- / 28.577	- / 31.188	- / 0.000	- / 31.188
P-3a	7 / Archived OSIPS (Various)				- / 844.572	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000
P-40	Total Gross/Weapon System Cost				- / 1,857.579	- / 108.415	- / 40.151	- / 41.414	- / 0.000	- / 41.414

Exhibits Schedule					FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	1 / INTEGRATED MECH DIAG (OSIP 007-98) (SAFETY, READINESS, AND MAINTAINABILITY)				- / 2.520	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 220.614
P-3a	2 / NACELLES (OSIP 009-01) (MISSION/MISSION ENHANCEMENT)				- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 67.775
P-3a	3 / H-53 ERIP (OSIP 010-05) (SAFETY, READINESS AND MAINTAINABILITY)				- / 0.000	- / 0.000	- / 0.000	- / 0.000	Continuing	Continuing
P-3a	4 / H-53 A/C SUSTAINMENT (OSIP 008-06) (MISSION/ PERFORMANCE SUSTAINMENT)				- / 4.014	- / 3.570	- / 3.214	- / 0.000	Continuing	Continuing
P-3a	5 / H-53 AVIONICS (OSIP 031-12) (MISSION/PERFORMANCE SUSTAINMENT)				- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 137.650
P-3a	6 / Correction of Deficiencies (OSIP 007-19) (Safety, Reliability, Improved Mission Capability)			390	- / 38.103	- / 41.333	- / 159.956	- / 169.676	Continuing	Continuing
P-3a	7 / Archived OSIPS (Various)				- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 844.572
P-40	Total Gross/Weapon System Cost				- / 44.637	- / 44.903	- / 163.170	- / 169.676	Continuing	Continuing

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

Justification:
 The FY2024 funding request is for the CH/MH-53E and CH-53K platforms for critical safety, readiness, obsolescence, avionics, and mission system modifications. Funding supports modifications to upgrade top age related engine degraders, fatigue limiters, and performance degraders on the T-64 Engine; reliability and readiness efforts.

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0528 / H-53 Series	Modification Number / Title: 1 / INTEGRATED MECH DIAG (OSIP 007-98)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	210.608	5.022	0.000	2.464	0.000	2.464	2.520	0.000	0.000	0.000	0.000	220.614
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	210.608	5.022	0.000	2.464	0.000	2.464	2.520	0.000	0.000	0.000	0.000	220.614
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	210.608	5.022	0.000	2.464	0.000	2.464	2.520	0.000	0.000	0.000	0.000	220.614

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Integrated Mechanical Diagnostics (IMD) is a helicopter monitoring and diagnostics system that provides continuous on board monitoring and diagnostics of engine health, gearbox and drive train vibrations, oil debris, Rotor Track and Balance (RTB). Full incorporation of the IMD system capabilities will allow rapid transition from the current costly philosophies of the 70s to today's cost wise initiatives and concepts. Lessons learned from this effort were incorporated into the solicitation for the fleet wide IMD effort with CH/MH-53E aircraft designated as the lead platforms. IMD produces the aircraft interface required to implement Military Flight Operations Quality Assurance (MFOQA), a capability designed to provide hazard monitoring and mitigation. Additionally, IMDS includes support equipment for RTB, including Virtual Master Blade System (VMBS). Condition Based Maintenance (CBM) is hosted within the aircraft IMDS/Health and Usage Monitoring System (HUMS), intended to direct maintenance by predicting failures based on real-time assessment of equipment condition obtained from Integrated Mechanical Diagnostics System (IMDS) embedded sensors.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: Advanced diagnostics enhancements and airframe structural life extension database interfaces are being incorporated to provide comprehensive platform operational and maintenance status awareness to the Squadron Commanders and key decision makers.

JUSTIFICATION FOR REQUIREMENTS AND CHANGES: This OSIP increases by \$2.464M from FY23 to FY24 to reflect IVHMU installs commencing in FY24.

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Exhibit P-3a, Individual Modification: PB 2024 Navy										Date: March 2023			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0528 / H-53 Series					Modification Number / Title: 1 / INTEGRATED MECH DIAG (OSIP 007-98)			
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: CH-53E (136), MH-53E (29), 165 Total					Modification Type: SAFETY, READINESS, AND MAINTAINABILITY					Related RDT&E PEs:			
Financial Plan <small>(*) Indicates the modification is being installed organically and no installation funds are required.</small>	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
1.1.1) IMDS IVHMU A Kits - NonOrganic Installation 1 of 1	112 / 0.821	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	112 / 0.821	
1.1.2) Archived A Kits OSIP 007-98 - Organic ^(*)	- / 81.887	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 81.887	
1.2.1) IMDS - IVHMU NRE - Organic ^(*)	- / 5.315	- / 0.671	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 5.986	
2.1.1) CBM Installation Equipment - Organic ^(*)	- / 18.828	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 18.828	
2.1.2) CBM Installation Equipment - Reserve - Organic ^(*)	- / 1.930	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.930	
2.1.3) IVHMU B Kits - Organic ^(*)	81 / 9.954	31 / 3.475	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	112 / 13.429	
2.1.4) Archived B Kits - Organic ^(*)	31 / 2.448	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	31 / 2.448	
Subtotal: Procurement	- / 121.183	- / 4.146	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 125.329	
Support													
3.1) Data	- / 1.949	- / 0.204	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.153	
3.2) Engineering Change Orders	- / 0.217	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.217	
3.3) Data - Reserve	- / 0.143	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.143	
3.4) Software	- / 16.591	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 16.591	
3.5) Training Equipment	2 / 0.928	- / 0.153	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 1.081	
3.6) Training Equipment - Reserve	- / 0.050	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.050	
3.7) Support Equipment	- / 15.944	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 15.944	
3.8) Condition Based Maint (CBM)	- / 12.922	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 12.922	
3.9) ILS	- / 15.051	- / 0.035	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 15.086	
3.10) ILS - Reserve	- / 0.384	- / 0.005	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.389	
3.11) Other Support - Reserve	- / 12.386	- / 0.020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 12.406	
3.12) Other Support	- / 162.860	- / 0.459	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 163.319	
Subtotal: Support	- / 89.425	- / 0.876	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 90.301	
Installation													
Installation 1 of 1: GRP: H-53 IVHMU	- / -	- / -	- / -	- / 12.464	- / 0.000	- / 12.464	- / 12.520	- / -	- / -	- / -	- / 0.000	- / 14.984	
Subtotal: Installation	- / 0.000	- / -	- / -	- / 12.464	- / -	- / 12.464	- / 12.520	- / -	- / -	- / -	- / 0.000	- / 14.984	
Total													
Total Cost (Procurement + Support + Installation)	210.608	5.022	0.000	2.464	0.000	2.464	2.520	0.000	0.000	0.000	0.000	220.614	

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0528 / H-53 Series	Modification Number / Title: 1 / INTEGRATED MECH DIAG (OSIP 007-98)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Installation 1 of 1: GRP: H-53 IVHMU

Manufacturer Information

Manufacturer Name: Various	Manufacturer Location: Various
Administrative Leadtime (in Months): 10	Production Leadtime (in Months): 17

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates	Jun 2022						
Delivery Dates	Nov 2023						

Installation Information

Method of Implementation: CONTRACTOR INSTALLED-FIELD MOD TEAM:: Installation Name: H-53 IVHMU

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	56 / 2.464	0 / 0.000	56 / 2.464	56 / 2.520	- / -	- / -	- / -	0 / 0.000	112 / 4.984
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	56 / 2.464	0 / 0.000	56 / 2.464	56 / 2.520	- / -	- / -	- / -	0 / 0.000	112 / 4.984

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot		
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4				
In	-	-	-	-	-	-	-	-	-	14	14	14	14	14	14	14	14	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Out	-	-	-	-	-	-	-	-	-	14	14	14	14	14	14	14	14	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy	Date: March 2023
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Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0528 / H-53 Series	Modification Number / Title: 2 / NACELLES (OSIP 009-01)
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ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	65.427	0.680	0.847	0.821	0.000	0.821	0.000	0.000	0.000	0.000	0.000	67.775
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) <i>(\$ in Millions)</i>	65.427	0.680	0.847	0.821	0.000	0.821	0.000	0.000	0.000	0.000	0.000	67.775
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	65.427	0.680	0.847	0.821	0.000	0.821	0.000	0.000	0.000	0.000	0.000	67.775

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Dollars)</i>	-	-	-	-	-	-	-	-	-	-	-	-

Description:

DESCRIPTION/JUSTIFICATION: The CH/MH-53E Number 1 & Number 3 engine Nacelles are a safety risk due to Things Falling Off Aircraft (TFOA). TFOA incidents risk damage to the aircraft, threaten aircrew safety, and could potentially impact personnel and/or property on the ground. To date, 84 TFOA events have occurred and of the 84, 10 have impacted the tail rotor. New CH/MH-53E Nacelles incorporates improved material properties, design and positive locking/latching mechanisms to prevent TFOA. The procurement improves fleet safety and readiness.

JUSTIFICATION FOR REQUIREMENTS AND CHANGES: This OSIP decreases by \$0.026 from FY23 to FY24 due to a decrease in the number of installs being performed in FY24.

Notes:

- Due to increasing complexity of the Nacelles install, installs will be performed by contractor field mod team. Prior year installs were organic.

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy										Date: March 2023			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0528 / H-53 Series					Modification Number / Title: 2 / NACELLES (OSIP 009-01)			
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: CH-53E(136), MH-53E(29), 165 TOTAL				Modification Type: MISSION/MISSION ENHANCEMENT				Related RDT&E PEs:					
Financial Plan <small>(*) Indicates the modification is being installed organically and no installation funds are required.</small>	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
1.1.1) CH-53E KITS (Nacelles) - NonOrganic Installation 1 of 1	140 / 31.986	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	140 / 31.986	
1.1.2) CH-53E KITS - (Nacelles) Reserve - NonOrganic Installation 1 of 1	2 / 0.435	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.435	
1.1.3) Archived A Kits OSIP 09-01 - Organic ^(*)	249 / 16.134	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	249 / 16.134	
2.1.1) Non-Recurring - Organic ^(*)	- / 0.811	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.811	
Subtotal: Procurement	- / 49.366	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 49.366	
Support													
3.2) Data	- / 0.177	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.177	
3.4) Support Equipment	- / 3.695	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 3.695	
3.5) ILS	- / 0.653	- / 0.039	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.692	
3.6) ILS - Reserve	- / 0.096	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.096	
3.7) Other Support	- / 10.100	- / 0.080	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 10.180	
3.8) Other Support - Reserve	- / 0.173	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.173	
Subtotal: Support	- / 14.894	- / 0.119	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 15.013	
Installation													
Installation 1 of 1: GRP: CH-53 Installs	- / 1.167	- / 0.561	- / 0.847	- / 0.821	- / 0.000	- / 0.821	- / -	- / -	- / -	- / -	- / 0.000	- / 3.396	
Subtotal: Installation	- / 1.167	- / 0.561	- / 0.847	- / 0.821	- / -	- / 0.821	- / -	- / -	- / -	- / -	- / 0.000	- / 3.396	
Total													
Total Cost (Procurement + Support + Installation)	65.427	0.680	0.847	0.821	0.000	0.821	0.000	0.000	0.000	0.000	0.000	67.775	

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0528 / H-53 Series	Modification Number / Title: 2 / NACELLES (OSIP 009-01)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Installation 1 of 1: GRP: CH-53 Installs

Manufacturer Information

Manufacturer Name: Sikorski Aircraft Corp ⁽¹⁾	Manufacturer Location: Stratford, CT
Administrative Leadtime (in Months): 8	Production Leadtime (in Months): 18

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates							
Delivery Dates							

Installation Information

Method of Implementation: Contractor Field Mod Team:: Installation Name: CH-53 Installs

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	53 / 1.167	22 / 0.561	33 / 0.847	32 / 0.821	0 / 0.000	32 / 0.821	- / -	- / -	- / -	- / -	0 / 0.000	140 / 3.396
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	53 / 1.167	22 / 0.561	33 / 0.847	32 / 0.821	0 / 0.000	32 / 0.821	- / -	- / -	- / -	- / -	0 / 0.000	140 / 3.396

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	53	-	16	6	-	-	16	17	-	-	16	16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Out	53	-	16	6	-	-	16	17	-	-	16	16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Footnotes:
⁽¹⁾ Difference (Qty 2) in CH-53E NACELLES Kit quantities (Qty 140) and installs (Qty 138) are due to Kit buys being procured in prior year, and installation Qty reflecting the aircraft CH-53E aircraft quantity reduction to Qty 138.

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Exhibit P-3a, Individual Modification: PB 2024 Navy	Date: March 2023
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Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0528 / H-53 Series	Modification Number / Title: 3 / H-53 ERIP (OSIP 010-05)
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ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	252.599	10.170	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) <i>(\$ in Millions)</i>	252.599	10.170	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	252.599	10.170	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Dollars)</i>	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The T64 Engine Reliability Improvement Program (ERIP) upgrades top age related engine degraders, fatigue limiters, and performance degraders on the T64 engine. The objective is to increase engine reliability and performance by incorporating minor improvements, necessary parts changes and introducing new Core Engine Kits to the fleet. This will be accomplished by standing up both a core engine and fuel control production line. These production lines will produce Core Engine Kits along with ensuring a production line is available for parts procurement/upgrades throughout the remainder of the CH-53E service life.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

JUSTIFICATION FOR REQUIREMENTS AND CHANGES: N/A

Notes:

1. Cost Element 1.1.1 and 1.1.2 Kits will be completed via O-level installations.

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Exhibit P-3a, Individual Modification: PB 2024 Navy **Date:** March 2023

Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0528 / H-53 Series	Modification Number / Title: 3 / H-53 ERIP (OSIP 010-05)
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ID Code (A=Service Ready, B=Not Service Ready) : **MDAP/MAIS Code:**

Models of Systems Affected: H-53 T64 Turbo-shaft engines **Modification Type:** SAFETY, READINESS AND MAINTAINABILITY **Related RDT&E PEs:**

Financial Plan <small>(*) Indicates the modification is being installed organically and no installation funds are required.</small>	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Procurement												
1.1.1) T-64 Engine Core - Organic ^(*) (2)	10 / 21.098	3 / 7.164	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	13 / 28.262
1.1.3) ARCHIVED B KITS - Organic ^(*)	4,737 / 162.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4,737 / 162.000
1.2.1) Non-Recurring Engineering - Organic ^(*)	- / 33.063	- / 0.105	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 33.168
<i>Subtotal: Procurement</i>	- / 216.161	- / 7.269	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 223.430
Support												
2.1) Data	- / 2.277	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.277
2.2) Training Equipment-OCO	- / 0.506	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.506
2.3) Training Equipment	- / 0.004	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.004
2.4) Support Equipment	- / 5.927	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 5.927
2.5) ILS	- / 1.116	- / 0.391	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	Continuing	Continuing
2.6) ILS - Reserve	- / 0.123	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.123
2.7) Other Support	- / 20.998	- / 2.510	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	Continuing	Continuing
2.8) Other Support - Reserve	- / 0.087	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.087
2.9) Other Support-OCO	- / 5.400	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 5.400
<i>Subtotal: Support</i>	- / 36.438	- / 2.901	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	Continuing	Continuing
Installation												
<i>Subtotal: Installation</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total												
Total Cost (Procurement + Support + Installation)	252.599	10.170	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing

Footnotes:
⁽²⁾ Starting in FY23, through the FYDP, OSIP 10-05 will be reduced to zero dollars to account for Headquarters Marine Corps Force Design Reprioritizations. GE ERIP T64 Engine Core termination decision issued, Aug 2022. \$7.2M remains on contract pending termination negotiations. No quantities will be procured.

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0528 / H-53 Series	Modification Number / Title: 4 / H-53 A/C SUSTAINMENT (OSIP 008-06)

ID Code (A=Service Ready, B=Not Service Ready) : _____ **MDAP/MAIS Code:** _____

Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	345.055	7.343	4.098	3.820	0.000	3.820	4.014	3.570	3.214	0.000	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	345.055	7.343	4.098	3.820	0.000	3.820	4.014	3.570	3.214	0.000	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	345.055	7.343	4.098	3.820	0.000	3.820	4.014	3.570	3.214	0.000	Continuing	Continuing
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The H-53 aircraft is planned to be in service through Calendar Year 2029. The H-53 Aircraft Sustainment Strategy targets initiatives to remedy the top readiness issues, maintenance degraders, fatigue life limiters, and safety issues that impede the aircraft's ability to operate into the future. This program implements mitigations to H-53 component obsolescence structural limitations; landing gear, dynamic components, missions systems, life support, wiring improvements to aircrew safety and all other components required to fly the H-53E Fleet sustainment support in an affordable manner will continue until the H-53K becomes available.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: The H-53 Sustainment Program Acquisition Strategy was approved by Program Executive Office (Aircraft) in December 2013 to be executed as one Abbreviated Acquisition Program (AAP) for Automatic Flight Control System (AFCS) and multiple independent projects related to safety, obsolescence, readiness and fatigue of all aircraft systems (e.g., fuel, fuel delivery, rotor, drive, landing gear, electrical, hydraulic, lighting, tow, flight control, communication/navigation, pitot/static and cockpit instrumentation). Outside of the AFCS AAP, each year of the program involves non-recurring engineering (NRE) on some projects, leading to production and installation in out-years. Other projects require little or no NRE and can be acquired and installed quickly during routine maintenance.

JUSTIFICATION FOR REQUIREMENTS AND CHANGES: This OSIP decreases by \$0.278M from FY23 to FY24 due to decrease in support requirements for Sustainment efforts.

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Exhibit P-3a, Individual Modification: PB 2024 Navy										Date: March 2023			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0528 / H-53 Series						Modification Number / Title: 4 / H-53 A/C SUSTAINMENT (OSIP 008-06)			
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: CH-53E (136), MH-53E (29), 165 Total				Modification Type: MISSION/PERFORMANCE SUSTAINMENT				Related RDT&E PEs:					
Financial Plan <small>(* Indicates the modification is being installed organically and no installation funds are required.)</small>	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
1.1.1) #2 Engine Fire Prevention Kits - NonOrganic Installation 1 of 1	42 / 3.250	4 / 0.288	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	46 / 3.538	
1.1.2) ARCHIVED A KITS - Organic ^(*)	2,670 / 139.458	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2,670 / 139.458	
1.2.1) Installation Kits (including Automatic Flight Control System) - Organic ^(*)	- / 51.767	- / 0.322	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 52.089	
1.2.2) Non-Recurring Engineering - Reserve (including AFCS) - Organic ^(*)	- / 1.064	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.064	
2.1.1) Safety/Readiness Improvement Kits - Organic ^{(*) (3)}	336 / 12.642	52 / 4.592	24 / 2.186	24 / 2.264	- / -	24 / 2.264	24 / 2.329	24 / 2.394	24 / 2.514	- / -	- / -	508 / 28.921	
2.1.2) IR Fire Detector - Organic ^(*)	1,056 / 3.445	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1,056 / 3.445	
2.1.3) Retrofit Kits for Common Navy Configuration - Organic ^(*)	- / 13.693	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 13.693	
2.1.4) ARCHIVED B KITS - Organic ^(*)	4,175 / 22.369	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4,175 / 22.369	
2.2.1) Installation Cost - Prior Year - Organic ^(*)	- / 6.468	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 6.468	
2.2.2) Installation Equipment - Organic ^{(*) (4)}	- / 10.055	- / 0.361	- / 0.370	- / 0.377	- / -	- / 0.377	- / 0.485	- / 0.200	- / -	- / -	- / -	- / 11.848	
Subtotal: Procurement	- / 264.211	- / 5.563	- / 2.556	- / 2.641	- / -	- / 2.641	- / 2.814	- / 2.594	- / 2.514	- / -	- / 0.000	- / 282.893	
Support													
3.1) Engineering Change Orders	- / 0.322	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.322	
3.2) Data - OCO	- / 0.732	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.732	
3.3) Data	- / 1.795	- / 0.102	- / 0.102	- / 0.104	- / -	- / 0.104	- / 0.106	- / 0.041	- / -	- / -	Continuing	Continuing	
3.4) Data - Reserve	- / 0.257	- / 0.020	- / 0.020	- / 0.020	- / -	- / 0.020	- / 0.020	- / 0.020	- / -	- / -	- / -	- / 0.357	
3.5) Training Equipment	6 / 0.090	- / 0.400	- / 0.020	- / 0.020	- / -	- / 0.020	- / 0.020	- / 0.020	- / -	- / -	- / -	6 / 0.570	
3.6) Support Equipment ⁽⁵⁾	104 / 3.657	- / -	- / 0.320	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	104 / 3.977	
3.7) ILS	- / 8.338	- / 0.153	- / 0.153	- / 0.156	- / -	- / 0.156	- / 0.159	- / 0.080	- / -	- / -	Continuing	Continuing	
3.8) ILS - Reserve	- / 1.830	- / 0.070	- / 0.070	- / 0.071	- / -	- / 0.071	- / 0.072	- / 0.036	- / -	- / -	Continuing	Continuing	
3.9) Other Support	- / 58.263	- / 0.933	- / 0.672	- / 0.704	- / -	- / 0.704	- / 0.717	- / 0.726	- / 0.700	- / -	Continuing	Continuing	
3.10) Other Support - Reserve	- / 2.718	- / 0.102	- / 0.102	- / 0.104	- / -	- / 0.104	- / 0.106	- / 0.053	- / -	- / -	Continuing	Continuing	
3.11) Other Support - OCO	- / 1.702	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.702	
3.12) Interim Contractor support	- / 0.270	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.270	
Subtotal: Support	- / 79.974	- / 1.780	- / 1.459	- / 1.179	- / -	- / 1.179	- / 1.200	- / 0.976	- / 0.700	- / -	Continuing	Continuing	
Installation													

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0528 / H-53 Series	Modification Number / Title: 4 / H-53 A/C SUSTAINMENT (OSIP 008-06)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Models of Systems Affected: CH-53E (136), MH-53E (29), 165 Total	Modification Type: MISSION/PERFORMANCE SUSTAINMENT	Related RDT&E PEs:
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Financial Plan <small>(*) Indicates the modification is being installed organically and no installation funds are required.</small>	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Installation 1 of 1: GRP: H-53 A/C SUSTAINMENT (OSIP 08-06) Engine Fire Prevention Kits	- / 0.870	- / -	- / 0.083	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 0.953
<i>Subtotal: Installation</i>	- / 0.870	- / -	- / 0.083	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 0.953
Total												
Total Cost (Procurement + Support + Installation)	345.055	7.343	4.098	3.820	0.000	3.820	4.014	3.570	3.214	0.000	Continuing	Continuing

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0528 / H-53 Series	Modification Number / Title: 4 / H-53 A/C SUSTAINMENT (OSIP 008-06)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Installation 1 of 1: GRP: H-53 A/C SUSTAINMENT (OSIP 08-06) Engine Fire Prevention Kits

Manufacturer Information

Manufacturer Name: Sikorski Aircraft Corp	Manufacturer Location: Stratford, CT
Administrative Leadtime (in Months): 5	Production Leadtime (in Months): 3

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates		Feb 2023					
Delivery Dates		May 2023					

Installation Information

Method of Implementation: CONTRACTOR FIELD MOD TEAM:: Installation Name: H-53 A/C SUSTAINMENT (OSIP 08-06) Engine Fire Prevent

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	42 / 0.870	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	42 / 0.870
FY 2022	- / -	- / -	4 / 0.083	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	4 / 0.083
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	42 / 0.870	- / -	4 / 0.083	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	46 / 0.953

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot	
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4			
In	42	-	-	-	-	-	-	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	46
Out	42	-	-	-	-	-	-	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	46

Footnotes:
⁽³⁾ Cost Element 2.1.1 Safety/Readiness Improvements increased quantities/costs in FY22 driven by procurement of Quick Disconnects (QDs)
⁽⁴⁾ Cost Element 2.2.2 Installation Equipment NRE required for upcoming safety/readiness improvements.

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0528 / H-53 Series	Modification Number / Title: 4 / H-53 A/C SUSTAINMENT (OSIP 008-06)
ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:	

⁽⁵⁾ Cost Element 3.6 Support Equipment increase in FY21 and FY23 is to support Main Rotor Static Balancing initiative.

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0528 / H-53 Series	Modification Number / Title: 5 / H-53 AVIONICS (OSIP 031-12)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	106.973	20.927	6.629	3.121	0.000	3.121	0.000	0.000	0.000	0.000	0.000	137.650
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	106.973	20.927	6.629	3.121	0.000	3.121	0.000	0.000	0.000	0.000	0.000	137.650
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	106.973	20.927	6.629	3.121	0.000	3.121	0.000	0.000	0.000	0.000	0.000	137.650

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

This Operational, Safety and Improvement Program (OSIP) will fund avionics systems for the H-53 helicopter. The H-53 strategy is to address safety, survivability, system obsolescence, and avionics deficiencies that require correction to maintain platform relevance on an increasingly networked battlefield. Specifically, this OSIP addresses Smart Multifunctional Color Display (SMFCD). This OSIP also provides funding to upgrade the MH-53E antiquated cockpit with critical safety and avionics upgrades, including (Embedded Global Positioning System/Inertial Navigation System)(EGI), Digital Interoperability (DI) Medium, Advanced Data Transfer Unit (ADTS).

This funding provides for the integration of cockpit avionics with Aircraft Survival Equipment (ASE) to provide time critical data to other battlefield users in order to more rapidly prosecute threats. This funding effort seeks to meet requirements, and eliminate avionics and ASE related system level deficiencies and safety hazards with the above described improvements, as well as ensuring that all H-53 aircraft are equipped with a full complement of ASE required to operate on the modern networked battlefield.

This OSIP also includes NRE funding for future targeted improvements that may be needed to provide for the safety and survivability of the fleet user.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: Full EGI integration commenced in FY 2019.

JUSTIFICATION FOR REQUIREMENTS AND CHANGES: OSIP decreased by \$3.508M from FY23 to FY24 due to completion of ADTS procurements in FY23.

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Exhibit P-3a, Individual Modification: PB 2024 Navy										Date: March 2023			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0528 / H-53 Series					Modification Number / Title: 5 / H-53 AVIONICS (OSIP 031-12)			
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: CH-53E (136), MH-53E (29), 165 Total					Modification Type: MISSION/PERFORMANCE SUSTAINMENT				Related RDT&E PEs:				
Financial Plan <small>(*) Indicates the modification is being installed organically and no installation funds are required.</small>	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
1.1.1) ADTS A Kit (Non-Organic) - NonOrganic Installation 1 of 2	- / -	- / -	38 / 0.449	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	38 / 0.449	
1.1.2) SATCOM - NonOrganic ^(*)	152 / 0.278	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	152 / 0.278	
1.1.4) CH 53E DI Medium A Kit - NonOrganic ⁽⁶⁾ Installation 2 of 2	- / -	16 / 1.872	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	16 / 1.872	
1.1.5) Archived A Kits - Organic ^(*)	632 / 57.870	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	632 / 57.870	
1.2.1) Installation A Kit NRE - Organic ^(*)	- / 9.521	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 9.521	
2.1.1) ADTS B Kit (Organic) - Organic ^(*)	- / -	- / -	38 / 3.219	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	38 / 3.219	
2.1.2) CH-53 ARC-210 SATCOM Kit-OCO - Organic ^(*)	40 / 1.600	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	40 / 1.600	
2.1.3) CH-53E DVE/LSPC B kit - Organic ^(*)	11 / 2.475	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	11 / 2.475	
2.1.4) Avionics B Kits - Organic ^(*)	45 / 0.225	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	45 / 0.225	
2.1.5) CH-53E DI Medium COD B Kit - NonOrganic ^(*)	- / -	16 / 13.984	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	16 / 13.984	
2.1.6) Avionics B Kit NRE - Organic ^(*)	- / 0.421	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.421	
Subtotal: Procurement	- / 72.390	- / 15.856	- / 3.668	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 91.914	
Support													
3.1) Data	- / 1.867	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.867	
3.2) Software	- / 4.653	- / 0.028	- / 0.028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 4.709	
3.3) Training Equipment	- / 1.390	- / 2.914	- / 0.488	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 4.792	
3.4) Support Equipment	- / 0.490	- / 0.273	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.763	
3.5) ILS	- / 4.572	- / 0.125	- / 0.060	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 4.757	
3.6) ILS - Reserve	- / 0.117	- / 0.015	- / 0.015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.147	
3.7) Other Support	- / 17.772	- / 1.425	- / 0.768	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 19.965	
3.8) Other Support - Reserve	- / 0.468	- / 0.061	- / 0.062	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.591	
3.9) Aircraft 539 Reconfigure Other Support - OCO	- / 0.609	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.609	
Subtotal: Support	- / 31.938	- / 4.841	- / 1.421	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 38.200	
Installation													
Installation 1 of 2: ADTS A Kit (Non-Organic)	- / -	- / -	- / -	- / 3.000	- / 0.000	- / 3.000	- / -	- / -	- / -	- / -	- / 0.000	- / 3.000	
Installation 2 of 2: CH 53E DI Medium A Kit	- / -	- / 0.230	- / 1.540	- / 0.121	- / 0.000	- / 0.121	- / -	- / -	- / -	- / -	- / 0.000	- / 1.891	
Subtotal: Installation	- / 2.645	- / 0.230	- / 1.540	- / 3.121	- / -	- / 3.121	- / -	- / -	- / -	- / -	- / 0.000	- / 7.536	

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Exhibit P-3a, Individual Modification: PB 2024 Navy **Date:** March 2023

Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0528 / H-53 Series	Modification Number / Title: 5 / H-53 AVIONICS (OSIP 031-12)
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ID Code (A=Service Ready, B=Not Service Ready) : **MDAP/MAIS Code:**

Models of Systems Affected: CH-53E (136), MH-53E (29), 165 Total	Modification Type: MISSION/PERFORMANCE SUSTAINMENT	Related RDT&E PEs:
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Financial Plan <small>(*) Indicates the modification is being installed organically and no installation funds are required.</small>	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>
Total												
Total Cost (Procurement + Support + Installation)	106.973	20.927	6.629	3.121	0.000	3.121	0.000	0.000	0.000	0.000	0.000	137.650

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0528 / H-53 Series	Modification Number / Title: 5 / H-53 AVIONICS (OSIP 031-12)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Installation 1 of 2: ADTS A Kit (Non-Organic)

Manufacturer Information

Manufacturer Name: TBD	Manufacturer Location: TBD
Administrative Leadtime (in Months): 3	Production Leadtime (in Months): 10

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates		Dec 2022					
Delivery Dates		Oct 2023					

Installation Information

Method of Implementation: Depot:: Installation Name: ADTS A Kit (Non-Organic)

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	38 / 3.000	0 / 0.000	38 / 3.000	- / -	- / -	- / -	- / -	0 / 0.000	38 / 3.000
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	38 / 3.000	0 / 0.000	38 / 3.000	- / -	- / -	- / -	- / -	0 / 0.000	38 / 3.000

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot	
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4			
In	-	-	-	-	-	-	-	-	-	10	10	10	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	38
Out	-	-	-	-	-	-	-	-	-	10	10	10	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	38

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Exhibit P-3a, Individual Modification: PB 2024 Navy **Date:** March 2023

Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0528 / H-53 Series	Modification Number / Title: 5 / H-53 AVIONICS (OSIP 031-12)
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ID Code (A=Service Ready, B=Not Service Ready) : **MDAP/MAIS Code:**

Installation 2 of 2: CH 53E DI Medium A Kit

Manufacturer Information

Manufacturer Name: Various Manufacturer Location: Various

Administrative Leadtime (in Months): 2 Production Leadtime (in Months): 4

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates	Jun 2022						
Delivery Dates	Sep 2022						

Installation Information

Method of Implementation: TBD:: Installation Name: CH 53E DI Medium A Kit

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	2 / 0.230	13 / 1.540	1 / 0.121	0 / 0.000	1 / 0.121	- / -	- / -	- / -	- / -	0 / 0.000	16 / 1.891
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	2 / 0.230	13 / 1.540	1 / 0.121	0 / 0.000	1 / 0.121	- / -	- / -	- / -	- / -	0 / 0.000	16 / 1.891

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot	
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4			
In	-	-	-	-	2	-	4	4	5	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	16
Out	-	-	-	-	1	1	4	4	5	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	16

Footnotes:
⁽⁶⁾ Di Medium B Kit - DI Medium A and B Kits increased per HQMC direction. Funding sourced from ERIP termination.

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0528 / H-53 Series	Modification Number / Title: 6 / Correction of Deficiencies (OSIP 007-19)

ID Code (A=Service Ready, B=Not Service Ready) : **MDAP/MAIS Code:** 390

Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	32.345	64.273	28.577	31.188	0.000	31.188	38.103	41.333	159.956	169.676	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	32.345	64.273	28.577	31.188	0.000	31.188	38.103	41.333	159.956	169.676	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	32.345	64.273	28.577	31.188	0.000	31.188	38.103	41.333	159.956	169.676	Continuing	Continuing

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

This Operational and Safety Improvement Program incorporates Corrections of Deficiencies on CH-53K aircraft related to safety, survivability, maintainability, reliability, interoperability, structural integrity, elimination of component interferences, improve suitability, and obsolescence of aircraft systems. These modifications and selected component changes will be accomplished by field retrofit performed by FRC, organic contractor artisans and contractor field mod teams. In order to resolve emerging deficiencies in a timeline that supports fleet requirements, the airframe, avionics, and propulsion and power systems which must be modified and installed as critical corrections/changes are identified. Funds will be used to manage, prepare, process, develop for retrofit, validate/verify, and incorporate Engineering Change Proposals (ECP) and implement those corrections to improve and sustain the CH-53K operations.

Corrections/modifications will be integrated for Reliability improvements. Avionics systems corrections include aircrew avionics, data, displays, controls, Operational Flight Program (OFF) aircraft software, Navigation and Safety systems, Air Data Pitot Static System, Communications / Identification / Intercommunication and Interoperability systems for CNS/ATM, Data Link, Counter Measures, Degraded Visual Environment (DVE), System Integration Laboratory, and Mission Planning. Airframe corrections include all structural components, mounts, cowlings, landing gear, fuselage and various dynamic components and internal/external cargo load. Flight Controls corrections include flight control computer, active inceptor system, inertial measurement units, and associated systems. Dynamic component corrections include all gearbox assemblies such as the Main Gearbox (MGB), Rear Module Assembly (RMA), Tail Gearbox (TGB), and the Intermediate Gearbox (IGB). Propulsion and Power upgrades include main/tail rotors, engines, fuel system, hydraulic power system, auxiliary power, ECS/Icing, rotors assembly, transmission, drive train, Integrated Mobile Aircrew Restraint System (IMARS), windscreens and mission system equipment. Propulsion and Power corrections are planned for chip detectors, main rotor blades (MRB), wheels and brakes and fire suppression system.

Corrections and modifications include retrofit activities for all fielded aircraft to maintain production configuration. Corrections and modifications include aircraft and mission software, communication systems, air data systems, fire suppression, airframe and engine structural components, windshield components, restraint devices, the engine and fuel system components, to include Data Transfer Unit (DTU) Defense Electronic Countermeasures (DECM) System Replacement (DDSR), Digital Interoperability (Di) Medium, Tactical Air Navigation (TACAN), Radar Altimeters (RADALT) antennas, Embedded Global Positioning System (GPS) Inertial Navigation System (INS)-Modernization (EGI-M), Inertial Measurement Unit, Cabin Armor, and Power Distribution Unit.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: CH-53K ADM signed for MS-C on 4 April 2017.

JUSTIFICATION FOR REQUIREMENTS AND CHANGES: This OSIP increased by \$2.611M from FY23 to FY24 due to an increase in procurement quantities of DI Medium A and B kits, as well as commencement of kit procurements for TACAN (A & B), GAU-21, Fuel Shut Off Valve, Aft Transition Impingement, Damper, and Engine Compartment Blanket kits in FY24.

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0528 / H-53 Series	Modification Number / Title: 6 / Correction of Deficiencies (OSIP 007-19)
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code: 390

NOTE: Specific ECPs performed each year will vary based on identified deficiencies.

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Exhibit P-3a, Individual Modification: PB 2024 Navy										Date: March 2023			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0528 / H-53 Series					Modification Number / Title: 6 / Correction of Deficiencies (OSIP 007-19)			
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code: 390						
Models of Systems Affected: CH-53K				Modification Type: Safety, Reliability, Improved Mission Capability				Related RDT&E PEs: 0605212M					
Financial Plan <small>(* Indicates the modification is being installed organically and no installation funds are required.)</small>	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
1.1.1) CH-53K Deployable COD Kit - Non-Organic - NonOrganic <i>Installation 1 of 8</i>	2 / 4.625	4 / 14.103	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	6 / 18.728	
1.1.2) CH-53K DI Medium CoD A Kit - Non-Organic - NonOrganic <i>(7)</i> <i>Installation 2 of 8</i>	- / -	16 / 0.816	2 / 0.105	5 / 0.275	- / -	5 / 0.275	5 / 0.291	6 / 0.358	10 / 0.615	- / -	- / -	44 / 2.460	
1.1.3) CH 53K DDSR COD A Kit - Non-Organic - NonOrganic ⁽⁸⁾ <i>Installation 3 of 8</i>	- / -	5 / 0.398	- / -	- / -	- / -	- / -	2 / 0.164	4 / 0.338	3 / 0.260	- / -	- / -	14 / 1.160	
2.1.2) CH-53K DDSR COD B Kit - Non-Organic - NonOrganic <i>Installation 3 of 8</i>	- / -	5 / 16.899	- / -	- / -	- / -	- / -	2 / 6.962	4 / 14.342	3 / 11.082	- / -	- / -	14 / 49.285	
1.1.4) CH 53K TACAN COD A Kit - Organic - Organic ^(*)	- / -	- / -	- / -	1 / 0.250	- / -	1 / 0.250	1 / 0.250	5 / 1.275	10 / 2.601	16 / 4.277	- / -	33 / 8.653	
1.1.5) CH 53K EGI COD A Kit - Organic - Organic ^(*) ⁽⁹⁾	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.250	1 / 0.250	5 / 1.275	5 / 1.307	25 / 6.633	37 / 9.715	
1.1.6) CH-53K GAU-21 A Kit - Non-Organic - NonOrganic <i>Installation 4 of 8</i>	- / -	- / -	- / -	5 / 0.215	- / -	5 / 0.215	5 / 0.220	- / -	- / -	- / -	- / -	10 / 0.435	
1.1.7) CH-53K Fuel Shut Off Valve A Kit - Organic - Organic ^(*)	- / -	- / -	- / -	18 / 1.260	- / -	18 / 1.260	8 / 0.562	20 / 1.440	- / -	- / -	- / -	46 / 3.262	
1.1.8) CH-53K Aft Transition Impingement A Kit Non-Organic - NonOrganic <i>Installation 5 of 8</i>	- / -	- / -	- / -	6 / 0.060	- / -	6 / 0.060	- / -	- / -	- / -	- / -	- / -	6 / 0.060	
1.1.9) CH-53K Engine Compartment Blanket A Kit Non-Organic - NonOrganic <i>Installation 6 of 8</i>	- / -	- / -	- / -	18 / 0.753	- / -	18 / 0.753	14 / 0.637	12 / 0.590	- / -	- / -	- / -	44 / 1.980	
1.1.10) CH-53K Inertial Measurement Unit Kit - Organic - Organic ^(*)	- / -	12 / 3.386	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	12 / 3.386	
1.1.11) CH-53K Cabin Armor A Kit Non-Organic - NonOrganic <i>Installation 7 of 8</i>	- / -	13 / 1.326	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	13 / 1.326	
1.2.1) CH-53K A KIT NRE - Organic ^(*) ⁽¹⁰⁾	- / 22.073	- / 5.862	- / 7.075	- / 1.356	- / -	- / 1.356	- / -	- / 7.258	- / 110.204	- / 123.904	- / -	- / 277.732	
2.1.1) CH-53K DI Medium CoD B Kit - Organic - Organic ^(*) ⁽¹¹⁾	- / -	12 / 10.373	1 / 0.890	3 / 2.750	- / -	3 / 2.750	3 / 2.835	- / -	- / -	- / -	- / -	19 / 16.848	
2.1.3) CH-53K Radalt Antenna COD B Kit - Organic ^(*)	- / -	10 / 0.040	7 / 0.028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	17 / 0.068	
2.1.4) CH-53K TACAN COD B Kit - Organic - Organic ^(*)	- / -	- / -	- / -	1 / 0.150	- / -	1 / 0.150	1 / 0.150	5 / 0.765	10 / 1.561	16 / 2.566	- / -	33 / 5.192	
2.1.5) CH-53K GAU-21 B Kit - Organic - Organic ^(*)	- / -	- / -	- / -	5 / 0.335	- / -	5 / 0.335	5 / 0.344	- / -	- / -	- / -	- / -	10 / 0.679	
2.1.6) CH-53K Damper B Kit - Organic - Organic ^(*)	- / -	- / -	- / -	1 / 1.150	- / -	1 / 1.150	1 / 1.200	3 / 3.780	10 / 13.230	10 / 13.892	- / -	25 / 33.252	
2.1.7) CH-53K Rear Module Assembly B Kit Non-Organic - NonOrganic <i>Installation 8 of 8</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 1.620	3 / 5.103	4 / 7.144	- / -	8 / 13.867	

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Exhibit P-3a, Individual Modification: PB 2024 Navy										Date: March 2023		
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0528 / H-53 Series						Modification Number / Title: 6 / Correction of Deficiencies (OSIP 007-19)		
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code: 390					
Models of Systems Affected: CH-53K				Modification Type: Safety, Reliability, Improved Mission Capability				Related RDT&E PEs: 0605212M				
Financial Plan <small>(*) Indicates the modification is being installed organically and no installation funds are required.</small>	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>
2.1.8) CH-53K Power Distribution Unit - B Kit Organic - Organic ⁽¹⁾	- / -	6 / 3.077	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	6 / 3.077
2.2.1) CH-53K B KIT NRE - Organic ⁽¹⁾⁽²⁾	- / 5.000	- / 5.605	- / 5.518	- / 2.636	- / -	- / 2.636	- / 1.880	- / 0.600	- / 2.000	- / 2.500	- / -	- / 25.739
Subtotal: Procurement	- / 31.698	- / 61.885	- / 13.616	- / 11.190	- / -	- / 11.190	- / 15.745	- / 32.616	- / 147.931	- / 155.590	- / 6.633	- / 476.904
Support												
3.1) Data	- / 0.164	- / 0.243	- / 0.231	- / 0.968	- / -	- / 0.968	- / 1.171	- / 1.005	- / 1.109	- / 1.135	- / 5.600	- / 11.626
3.2) ILS	- / 0.140	- / 0.238	- / 0.833	- / 0.937	- / -	- / 0.937	- / 1.018	- / 1.179	- / 4.258	- / 4.364	Continuing	Continuing
3.3) Other Support ⁽¹³⁾	- / 0.343	- / 1.907	- / 2.100	- / 2.815	- / -	- / 2.815	- / 2.890	- / 3.049	- / 3.569	- / 3.709	Continuing	Continuing
Subtotal: Support	- / 0.647	- / 2.388	- / 3.164	- / 4.720	- / -	- / 4.720	- / 5.079	- / 5.233	- / 8.936	- / 9.208	- / 3.600	- / 9.626
Installation												
Installation 1 of 8: CH-53K Deployable COD Kit- Non-Organic	- / -	- / -	- / 11.797	- / 12.132	- / 0.000	- / 12.132	- / 12.496	- / -	- / -	- / -	- / 0.000	- / 36.425
Installation 2 of 8: CH-53K DI Medium CoD A Kit - Non-Organic	- / -	- / -	- / -	- / 2.695	- / 0.000	- / 2.695	- / 1.766	- / 1.300	- / 1.340	- / 1.656	- / 2.760	- / 11.517
Installation 3 of 8: GRP: CH-53K DDSR Components CoD OSIP A and B Kits	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.400	- / 1.600	- / 1.600	- / 3.222	- / 2.442	- / 11.264
Installation 4 of 8: CH-53K GAU-21 A Kit - Non-Organic	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.405	- / 0.415	- / -	- / -	- / 0.000	- / 0.820
Installation 5 of 8: CH-53K Aft Transition Impingement A Kit Non-Organic	- / -	- / -	- / -	- / 0.240	- / 0.000	- / 0.240	- / -	- / -	- / -	- / -	- / 0.000	- / 0.240
Installation 6 of 8: CH-53K Engine Compartment Blanket A Kit Non-Organic	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.212	- / 0.169	- / 0.149	- / -	- / 0.000	- / 0.530
Installation 7 of 8: CH-53K Cabin Armor A Kit Non-Organic	- / -	- / -	- / -	- / 0.211	- / 0.000	- / 0.211	- / -	- / -	- / -	- / -	- / 0.000	- / 0.211
Installation 8 of 8: CH-53K Rear Module Assembly B Kit Non-Organic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.200	- / 1.200
Subtotal: Installation	- / 0.000	- / -	- / 11.797	- / 15.278	- / -	- / 15.278	- / 17.279	- / 3.484	- / 3.089	- / 4.878	- / 6.402	- / 62.207
Total												
Total Cost (Procurement + Support + Installation)	32.345	64.273	28.577	31.188	0.000	31.188	38.103	41.333	159.956	169.676	Continuing	Continuing

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0528 / H-53 Series	Modification Number / Title: 6 / Correction of Deficiencies (OSIP 007-19)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code: 390
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Installation 1 of 8: CH-53K Deployable COD Kit- Non-Organic

Manufacturer Information

Manufacturer Name: Sikorsky	Manufacturer Location: TBD
Administrative Leadtime (in Months): 3	Production Leadtime (in Months): 27

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates	Sep 2022						
Delivery Dates	Dec 2024						

Installation Information

Method of Implementation: [none specified]:: Installation Name: CH-53K Deployable COD Kit- Non-Organic

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	2 / 11.797	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	2 / 11.797
FY 2022	- / -	- / -	- / -	2 / 12.132	0 / 0.000	2 / 12.132	2 / 12.496	- / -	- / -	- / -	0 / 0.000	4 / 24.628
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	2 / 11.797	2 / 12.132	0 / 0.000	2 / 12.132	2 / 12.496	- / -	- / -	- / -	0 / 0.000	6 / 36.425

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot				
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4						
In	-	-	-	-	-	2	-	-	-	2	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Out	-	-	-	-	-	2	-	-	-	2	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0528 / H-53 Series	Modification Number / Title: 6 / Correction of Deficiencies (OSIP 007-19)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code: 390
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Installation 2 of 8: CH-53K DI Medium CoD A Kit - Non-Organic

Manufacturer Information

Manufacturer Name: Various	Manufacturer Location: Various
Administrative Leadtime (in Months): 1	Production Leadtime (in Months): 12

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates		Oct 2022	Oct 2023	Oct 2024	Oct 2025	Oct 2026	
Delivery Dates		Oct 2023	Oct 2024	Oct 2025	Oct 2026	Oct 2027	

Installation Information

Method of Implementation: [none specified]:: Installation Name: CH-53K DI Medium CoD A Kit - Non-Organic

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	11 / 2.695	0 / 0.000	11 / 2.695	5 / 1.260	- / -	- / -	- / -	0 / 0.000	16 / 3.955
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.506	- / -	- / -	- / -	0 / 0.000	2 / 0.506
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	5 / 1.300	- / -	- / -	0 / 0.000	5 / 1.300
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	5 / 1.340	- / -	0 / 0.000	5 / 1.340
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	6 / 1.656	0 / 0.000	6 / 1.656
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	10 / 2.760	10 / 2.760
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	11 / 2.695	0 / 0.000	11 / 2.695	7 / 1.766	5 / 1.300	5 / 1.340	6 / 1.656	10 / 2.760	44 / 11.517

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	4	3	2	2	2	4	1	-	2	3	-	-	2	3	-	-	2	4	-	-	10	44
Out	-	-	-	-	-	-	-	-	-	4	3	2	2	2	4	1	-	2	3	-	-	2	3	-	-	2	4	-	-	10	44

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0528 / H-53 Series	Modification Number / Title: 6 / Correction of Deficiencies (OSIP 007-19)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code: 390
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Installation 3 of 8: GRP: CH-53K DDSR Components CoD OSIP A and B Kits

Manufacturer Information

Manufacturer Name: Various	Manufacturer Location: Various
Administrative Leadtime (in Months): 5	Production Leadtime (in Months): 24

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates	Feb 2023			Feb 2025	Feb 2026	Feb 2027	
Delivery Dates	Feb 2025			Feb 2027	Feb 2028	Feb 2029	

Installation Information

Method of Implementation: Method TBD:: Installation Name: CH-53K DDSR Components CoD OSIP A and B Kits

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	6 / 2.400	4 / 1.600	- / -	- / -	0 / 0.000	10 / 4.000
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4 / 1.600	- / -	0 / 0.000	4 / 1.600
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	8 / 3.222	0 / 0.000	8 / 3.222
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	6 / 2.442	6 / 2.442
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	- / -	- / -	- / -	6 / 2.400	4 / 1.600	4 / 1.600	8 / 3.222	6 / 2.442	28 / 11.264

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot	
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4			
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	2	2	2	2	2	-	-	-	2	2	-	-	4	3	1	6	28
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	2	2	2	2	-	-	-	2	2	-	-	4	3	1	6	28

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0528 / H-53 Series	Modification Number / Title: 6 / Correction of Deficiencies (OSIP 007-19)

ID Code (A=Service Ready, B=Not Service Ready) : **MDAP/MAIS Code:** 390

Installation 4 of 8: CH-53K GAU-21 A Kit - Non-Organic

Manufacturer Information

Manufacturer Name: TBD Manufacturer Location: TBD
 Administrative Leadtime (in Months): 3 Production Leadtime (in Months): 10

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates			Dec 2023	Dec 2024			
Delivery Dates			Oct 2024	Oct 2025			

Installation Information

Method of Implementation: TBD:: Installation Name: CH-53K GAU-21 A Kit - Non-Organic

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	5 / 0.405	- / -	- / -	- / -	0 / 0.000	5 / 0.405
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	5 / 0.415	- / -	- / -	0 / 0.000	5 / 0.415
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	- / -	- / -	- / -	5 / 0.405	5 / 0.415	- / -	- / -	0 / 0.000	10 / 0.820

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot		
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4				
In	-	-	-	-	-	-	-	-	-	-	-	-	-	5	-	-	-	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	5	-	-	-	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0528 / H-53 Series	Modification Number / Title: 6 / Correction of Deficiencies (OSIP 007-19)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code: 390
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Installation 5 of 8: CH-53K Aft Transition Impingement A Kit Non-Organic

Manufacturer Information

Manufacturer Name: TBD	Manufacturer Location: TBD
Administrative Leadtime (in Months): 1	Production Leadtime (in Months): 8

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates			Oct 2023				
Delivery Dates			Jun 2024				

Installation Information

Method of Implementation: TBD:: Installation Name: CH-53K Aft Transition Impingement A Kit Non-Organic

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	6 / 0.240	0 / 0.000	6 / 0.240	- / -	- / -	- / -	- / -	0 / 0.000	6 / 0.240
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	6 / 0.240	0 / 0.000	6 / 0.240	- / -	- / -	- / -	- / -	0 / 0.000	6 / 0.240

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	-	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Out	-	-	-	-	-	-	-	-	-	-	-	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0528 / H-53 Series	Modification Number / Title: 6 / Correction of Deficiencies (OSIP 007-19)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code: 390
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Installation 6 of 8: CH-53K Engine Compartment Blanket A Kit Non-Organic

Manufacturer Information

Manufacturer Name: TBD	Manufacturer Location: TBD
Administrative Leadtime (in Months): 3	Production Leadtime (in Months): 10

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates			Dec 2023	Dec 2024	Dec 2025		
Delivery Dates			Oct 2024	Oct 2025	Oct 2026		

Installation Information

Method of Implementation: TBD:: Installation Name: CH-53K Engine Compartment Blanket A Kit Non-Organic

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	18 / 0.212	- / -	- / -	- / -	0 / 0.000	18 / 0.212
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	14 / 0.169	- / -	- / -	0 / 0.000	14 / 0.169
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	12 / 0.149	- / -	0 / 0.000	12 / 0.149
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	- / -	- / -	- / -	18 / 0.212	14 / 0.169	12 / 0.149	- / -	0 / 0.000	44 / 0.530

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot	
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4			
In	-	-	-	-	-	-	-	-	-	-	-	-	-	6	6	6	-	6	6	2	-	6	6	-	-	-	-	-	-	-	-	44
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	6	6	6	-	6	6	2	-	6	6	-	-	-	-	-	-	-	-	44

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0528 / H-53 Series	Modification Number / Title: 6 / Correction of Deficiencies (OSIP 007-19)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code: 390
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Installation 7 of 8: CH-53K Cabin Armor A Kit Non-Organic

Manufacturer Information

Manufacturer Name: Crestwood Technology Group	Manufacturer Location: Various
Administrative Leadtime (in Months): 10	Production Leadtime (in Months): 17

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates	Jun 2022						
Delivery Dates	Nov 2023						

Installation Information

Method of Implementation: [none specified]:: Installation Name: CH-53K Cabin Armor A Kit Non-Organic

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	13 / 0.211	0 / 0.000	13 / 0.211	- / -	- / -	- / -	- / -	0 / 0.000	13 / 0.211
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	13 / 0.211	0 / 0.000	13 / 0.211	- / -	- / -	- / -	- / -	0 / 0.000	13 / 0.211

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot	
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4			
In	-	-	-	-	-	-	-	-	-	2	4	4	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	13
Out	-	-	-	-	-	-	-	-	-	2	4	4	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	13

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0528 / H-53 Series	Modification Number / Title: 6 / Correction of Deficiencies (OSIP 007-19)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code: 390
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Installation 8 of 8: CH-53K Rear Module Assembly B Kit Non-Organic

Manufacturer Information

Manufacturer Name: TBD	Manufacturer Location: TBD
Administrative Leadtime (in Months): 3	Production Leadtime (in Months): 36

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates							
Delivery Dates							

Installation Information

Method of Implementation: TBD:: Installation Name: CH-53K Rear Module Assembly B Kit Non-Organic

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.150	1 / 0.150
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3 / 0.450	3 / 0.450
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4 / 0.600	4 / 0.600
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	8 / 1.200	8 / 1.200

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8	8
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8	8

Footnotes:
⁽⁷⁾ 1.1.2 - FY22 increase in quantities to support Kilo DI Medium acceleration to the fleet, per HQMC prioritization decision.
⁽⁸⁾ 2.1.2 - FY22 increase in A and B Kit quantities to support DDSR acceleration to the fleet, per HQMC prioritization decision.

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0528 / H-53 Series	Modification Number / Title: 6 / Correction of Deficiencies (OSIP 007-19)
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code: 390
<p>⁽⁹⁾ CH-53K EGI COD A Kit - PMW-170 will be procuring the EGI CoD B Kits.</p> <p>⁽¹⁰⁾ CH-53K A KIT NRE: OSIP 007-19 NRE line includes the following cost elements: Data Transfer Unit (DTU) Defense Electronic Countermeasures (DECM) System Replacement (DDSR), Digital Interoperability (Di) Medium, Tactical Air Navigation (TACAN), Embedded Global Positioning System (GPS) Inertial Navigation System (INS)-Modernization (EGI-M), GAU-21, Engine Compartment Bay Blanket.</p> <p>⁽¹¹⁾ Cost Element 2.1.1 Di Medium CoD B Kit - DI Medium B Kit is roll-on/roll-off mission essential equipment with no associated install cost.</p> <p>⁽¹²⁾ CH-53K B KIT NRE: OSIP 007-19 NRE line includes the Val/Ver kits and installations for Data Transfer Unit (DTU) Defense Electronic Countermeasures (DECM) System Replacement (DDSR).</p> <p>⁽¹³⁾ 3.3 Other Support: Increase from FY23 to FY24 reflective of additional support required for several new A and B kit procurements commencing in FY24 (GAU-21, Fuel Valve, Aft Trans Imping., Eng. Comp. Blanket, Dampers)</p>		

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Exhibit P-3a, Individual Modification: PB 2024 Navy	Date: March 2023
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Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0528 / H-53 Series	Modification Number / Title: 7 / Archived OSIPS
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ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	844.572	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	844.572
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	844.572	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	844.572
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	844.572	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	844.572

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Inactive OSIPs prior year totals.

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Exhibit P-3a, Individual Modification: PB 2024 Navy										Date: March 2023		
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0528 / H-53 Series						Modification Number / Title: 7 / Archived OSIPS		
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:					
Models of Systems Affected: H-53 Series				Modification Type: Various				Related RDT&E PEs:				
Financial Plan <small>(*) Indicates the modification is being installed organically and no installation funds are required.</small>	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>
Procurement												
1.1.1) Inactive OSIPS - Organic ^(*)	- / 844.572	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 844.572
Subtotal: Procurement	- / 844.572	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 844.572
Installation												
Subtotal: Installation	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total												
Total Cost (Procurement + Support + Installation)	844.572	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	844.572

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Exhibit P-40, Budget Line Item Justification: PB 2024 Navy **Date:** March 2023

Appropriation / Budget Activity / Budget Sub Activity: 1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft	P-1 Line Item Number / Title: 0530 / MH-60 Series
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	1,756.650	94.708	136.238	106.495	0.000	106.495	114.762	133.229	151.338	167.519	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	1,756.650	94.708	136.238	106.495	0.000	106.495	114.762	133.229	151.338	167.519	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	1,756.650	94.708	136.238	106.495	0.000	106.495	114.762	133.229	151.338	167.519	Continuing	Continuing

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

This line item funds modifications to MH-60 Series aircraft. The MH-60 Series FY 2023 Inventory is comprised of: 255 MH-60S and 270 MH-60R. Primary missions of the MH-60S include Combat Logistics, Surface Warfare (SUW), Naval Special Warfare (NSW), Combat Search and Rescue, and Airborne Mine Countermeasures (AMCM). Additional missions include, Intelligence, Surveillance, Reconnaissance and Targeting (ISR&T), Search and Rescue, Humanitarian Assistance (HA), and Defense Support for Civil Authorities. The MH-60R provides persistent distributed, integrated, and maneuverable capabilities in the support of the Navy's Fleet Design and Distributed Maritime Operations concepts through its primary missions: Anti-Submarine Warfare (ASW), SUW, Electronic Warfare (EW), Command and Control (CC), and Non-Combat Operations (NCO). Secondary missions include: Amphibious Warfare (AMW), Air Warfare (AW), Health Services (HS), Fleet Support - Operations (FS-O), Intelligence Operations (INT), Logistics (LOG), and NSW. The overall goal of the modifications budget is for Safety Related Systems Upgrades, Warfighter upgrades for the MH-60R, Warfighter upgrades for the MH-60S, MH-60 Aircraft obsolescence and MH60S Service Life Extension Program (SLEP).

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Exhibit P-40, Budget Line Item Justification: PB 2024 Navy **Date:** March 2023

Appropriation / Budget Activity / Budget Sub Activity:
1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft

P-1 Line Item Number / Title:
0530 / MH-60 Series

ID Code (A=Service Ready, B=Not Service Ready): A **Program Elements for Code B Items:** N/A **Other Related Program Elements:** N/A

Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	1 / 009-03 SAFETY RELATED SYSTEM UPGRADE (SAFETY)				- / 107.503	- / 8.495	- / 14.222	- / 11.758	- / 0.000	- / 11.758
P-3a	2 / 001-06 MH-60R WARFIGHTER (OPERATIONAL ENHANCEMENT, RELIABILITY)				- / 524.543	- / 24.532	- / 20.588	- / 18.565	- / 0.000	- / 18.565
P-3a	3 / 009-07 MH-60S WARFIGHTER (OPERATIONAL ENHANCEMENT)				- / 464.486	- / 32.488	- / 34.631	- / 29.268	- / 0.000	- / 29.268
P-3a	4 / 018-12 H-60 OBSOLESCENCE AND SUSTAINMENT (SUSTAINMENT)				- / 246.309	- / 29.193	- / 47.801	- / 30.759	- / 0.000	- / 30.759
P-3a	5 / 001-23 MH60S SLEP (TBD)				- / 0.000	- / 0.000	- / 18.996	- / 16.145	- / 0.000	- / 16.145
P-3a	6 / Inactive OSIPs (TBD)				- / 413.809	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000
P-40	Total Gross/Weapon System Cost				- / 1,756.650	- / 94.708	- / 136.238	- / 106.495	- / 0.000	- / 106.495

Exhibits Schedule					FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	1 / 009-03 SAFETY RELATED SYSTEM UPGRADE (SAFETY)				- / 10.986	- / 13.990	- / 14.251	- / 9.844	Continuing	Continuing
P-3a	2 / 001-06 MH-60R WARFIGHTER (OPERATIONAL ENHANCEMENT, RELIABILITY)				- / 15.966	- / 9.853	- / 13.181	- / 12.930	Continuing	Continuing
P-3a	3 / 009-07 MH-60S WARFIGHTER (OPERATIONAL ENHANCEMENT)				- / 27.011	- / 25.256	- / 19.788	- / 15.598	Continuing	Continuing
P-3a	4 / 018-12 H-60 OBSOLESCENCE AND SUSTAINMENT (SUSTAINMENT)				- / 43.194	- / 53.079	- / 71.863	- / 73.852	Continuing	Continuing
P-3a	5 / 001-23 MH60S SLEP (TBD)				- / 17.605	- / 31.051	- / 32.255	- / 55.295	Continuing	Continuing
P-3a	6 / Inactive OSIPs (TBD)				- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 413.809
P-40	Total Gross/Weapon System Cost				- / 114.762	- / 133.229	- / 151.338	- / 167.519	Continuing	Continuing

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

Justification:

The FY 2024 funding request is for critical safety, obsolescence, air vehicle, avionics, weapons and mission system modifications. The decrease from FY 2023 to FY 2024 is based on the completion of various Romeo and Sierra kits as specified in each OSIP as well as realigning funds from OSIP 18-12 to RDTE to appropriately fund obsolescence requirements in development.

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0530 / MH-60 Series	Modification Number / Title: 1 / 009-03 SAFETY RELATED SYSTEM UPGRADE

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	107.503	8.495	14.222	11.758	0.000	11.758	10.986	13.990	14.251	9.844	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	107.503	8.495	14.222	11.758	0.000	11.758	10.986	13.990	14.251	9.844	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	107.503	8.495	14.222	11.758	0.000	11.758	10.986	13.990	14.251	9.844	Continuing	Continuing

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

DESCRIPTION/JUSTIFICATION: Safety Related Systems Upgrade funds modifications to improve the safety of operating MH-60 Series aircraft in all operations. In addition to those modifications specifically cited below, this Operational Safety Improvement Program provides the vehicle to expeditiously fund and correct MH-60 Series engine, airframe and avionics safety-related deficiencies (Hazard Risk Index 1-20). Future modifications will include modification of rotor damper bearings with elastomeric bearings leading to increased component life, replacing the current non-locking rescue hook with a locking rescue hook to improve safety, mandated controlled-flight-into-terrain (CFIT) avoidance systems, mandated mid-air-collision avoidance capabilities (MCAC), mandated crash data recording capabilities, and improved tail gear box bevel gear mesh patterns to reduce catastrophic damage under increased load conditions.

Areas of potential OSIP modifications being investigated for future improvements include: 1) Power & Propulsion systems/Engines (gearboxes, Auxiliary Power Unit (APU), T700, rotors, fuel systems and dampers), 2) Aircrew Survivability (integration for seating, harness, hearing), and Safety issues (integration for landing gear, instrument/navigation, fuel, electrical/wiring, guns, weapons, dynamic flight control components, mission computers, Advanced Flight Control Computer (AFCS), Radar Altimeter (RADALT), crash worthy seating, emergency lighting, and hydraulic systems) and 3) Airframe/Avionics (soundproofing, landing gear, and rescue hoist, cockpit lighting/searchlights, and Airborne Low Frequency Sonar (ALFS)). Additionally, the safety modifications include aircraft avionics and mission systems enabling overland operations in degraded visual flight environments (DVE) associated with unimproved terrain, both day and night, and in all weather conditions. This includes terrain avoidance warning systems, precision overland navigation awareness displays, enhanced radar laser detection systems for obstacle and power line avoidance, and additional developmental items pertaining to operations in degraded visual environments.

Modify the T700 Engine to the 401D configuration by incorporating the Gas Generator Turbine to endure the increased temperature. The upgrade improves engine reliability which increases time-on-wing, allowing for reduced maintenance interval and maintenance man-hours required compared to the existing 401C engine.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: The MH-60 series currently has 35 active Safety Action Records being monitored across all MH-60 series aircraft. As solutions become available the aircraft modifications will be implemented.

JUSTIFICATION FOR REQUIREMENTS AND CHANGES: OSIP 009-03 baseline funding decreases by \$2.464M from FY 2023 to FY 2024 due to the completion of IUADP.

Current Active Modifications:

1. T700 401D Engine;
2. Aircrew Survivability Kits;
3. Airframe Safety Kits;
4. EDECU

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0530 / MH-60 Series	Modification Number / Title: 1 / 009-03 SAFETY RELATED SYSTEM UPGRADE
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:
<p>[T700 401D Kit Upgrade] Cost Element 1.1.4 Unit cost and quantity updated to reflect negotiated values.</p> <p>[EDECU] Cost element 1.1.5 EDECU A kit funding provides for procurement of P09 Enhanced Digital Engine Control Unit (EDECU's) for MH-60 to address high priority safety issue related to EDECU high-side failures on T-700 engines. This funding accelerates incorporation of the P09 EDECU, which addresses the electrical component deficiencies responsible for the majority of high-side failures. High-side failures present significant safety risks to aircraft and flight crew resulting in a land as soon as possible emergency procedure.</p> <p>[OTHER SUPPORT] Cost element 3.5 Funding is required for acquisition, configuration/documentation management, scheduling of aircraft and installation activities, engineering, and test support required to incorporate safety modifications on the MH-60R/S aircraft.</p>		

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Exhibit P-3a, Individual Modification: PB 2024 Navy										Date: March 2023			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0530 / MH-60 Series					Modification Number / Title: 1 / 009-03 SAFETY RELATED SYSTEM UPGRADE			
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: MH-60R, MH-60S				Modification Type: SAFETY				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
<i>Modification Item 1 of 1: 009-03 SAFETY RELATED SYSTEM UPGRADE</i>													
A Kits													
Recurring													
1.1.1) SH-60 Series Archived ECPs - Organic	- / 69.561	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 69.561	
1.1.2) T700 401D Kit Upgrade - Organic	- / -	94 / 3.760	188 / 7.520	188 / 7.520	- / -	188 / 7.520	168 / 6.720	168 / 6.720	168 / 6.895	88 / 3.612	- / -	1,062 / 42.747	
1.1.3) Aircrew Survivability Kits - Organic	8 / 1.458	4 / 0.723	2 / 0.399	2 / 0.407	- / -	2 / 0.407	2 / 0.415	10 / 2.117	10 / 2.160	10 / 2.160	408 / 88.109	456 / 97.948	
1.1.4) Airframe Safety Kits - Organic	14 / 1.622	8 / 0.952	2 / 0.242	2 / 0.246	- / -	2 / 0.246	2 / 0.251	12 / 1.536	12 / 1.566	12 / 1.572	380 / 49.600	444 / 57.587	
1.1.5) EDECU - Organic	100 / 2.500	- / -	100 / 2.500	100 / 2.500	- / -	100 / 2.500	100 / 2.500	100 / 2.500	100 / 2.500	100 / 2.500	400 / 10.000	1,100 / 27.500	
1.1.6) IUADP - Organic	40 / 2.500	40 / 2.500	40 / 2.500	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	120 / 7.500	
<i>Subtotal: Recurring</i>	<i>- / 77.641</i>	<i>- / 7.935</i>	<i>- / 13.161</i>	<i>- / 10.673</i>	<i>- / -</i>	<i>- / 10.673</i>	<i>- / 9.886</i>	<i>- / 12.873</i>	<i>- / 13.121</i>	<i>- / 9.844</i>	<i>- / 147.709</i>	<i>- / 302.843</i>	
Non-Recurring													
1.2.1) INSTALLATION KITS N/R - Organic	- / 9.588	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 9.588	
<i>Subtotal: Non-Recurring</i>	<i>- / 9.588</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / 0.000</i>	<i>- / 9.588</i>	
<i>Subtotal: 009-03 SAFETY RELATED SYSTEM UPGRADE</i>	<i>162 / 87.229</i>	<i>146 / 7.935</i>	<i>332 / 13.161</i>	<i>292 / 10.673</i>	<i>- / -</i>	<i>292 / 10.673</i>	<i>272 / 9.886</i>	<i>290 / 12.873</i>	<i>290 / 13.121</i>	<i>210 / 9.844</i>	<i>1,188 / 147.709</i>	<i>3,182 / 312.431</i>	
<i>Subtotal: Procurement, All Modification Items</i>	<i>- / 87.229</i>	<i>- / 7.935</i>	<i>- / 13.161</i>	<i>- / 10.673</i>	<i>- / -</i>	<i>- / 10.673</i>	<i>- / 9.886</i>	<i>- / 12.873</i>	<i>- / 13.121</i>	<i>- / 9.844</i>	<i>- / 147.709</i>	<i>- / 312.431</i>	
Support (All Modification Items)													
3.1) SAFETY RELATED ECO	- / 0.030	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.030	
3.2) DATA	- / 1.670	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.670	
3.3) TRAINING EQUIPMENT	- / 0.429	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.429	
3.4) ILS	- / 0.981	- / -	- / 0.250	- / 0.255	- / -	- / 0.255	- / 0.260	- / 0.265	- / 0.270	- / -	Continuing	Continuing	
3.5) OTHER SUPPORT	- / 17.164	- / 0.560	- / 0.811	- / 0.830	- / -	- / 0.830	- / 0.840	- / 0.852	- / 0.860	- / -	Continuing	Continuing	
<i>Subtotal: Support</i>	<i>- / 20.274</i>	<i>- / 0.560</i>	<i>- / 1.061</i>	<i>- / 1.085</i>	<i>- / -</i>	<i>- / 1.085</i>	<i>- / 1.100</i>	<i>- / 1.117</i>	<i>- / 1.130</i>	<i>- / -</i>	<i>Continuing</i>	<i>Continuing</i>	
Installation													
<i>Subtotal: Installation</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	
Total													
Total Cost (Procurement + Support + Installation)	107.503	8.495	14.222	11.758	0.000	11.758	10.986	13.990	14.251	9.844	Continuing	Continuing	

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0530 / MH-60 Series	Modification Number / Title: 1 / 009-03 SAFETY RELATED SYSTEM UPGRADE
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:
Modification Item 1 of 1: 009-03 SAFETY RELATED SYSTEM UPGRADE		

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0530 / MH-60 Series	Modification Number / Title: 2 / 001-06 MH-60R WARFIGHTER

ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:					
Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	524.543	24.532	20.588	18.565	0.000	18.565	15.966	9.853	13.181	12.930	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	524.543	24.532	20.588	18.565	0.000	18.565	15.966	9.853	13.181	12.930	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	524.543	24.532	20.588	18.565	0.000	18.565	15.966	9.853	13.181	12.930	Continuing	Continuing
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

DESCRIPTION/JUSTIFICATION: The MH-60R provides persistent distributed, integrated, and maneuverable capabilities in the support of the Navy's Fleet Design and Distributed Maritime Operations concepts through its primary missions: Anti-Submarine Warfare (ASW), Surface Warfare (SUW), Electronic Warfare (EW), Command and Control (CC), and Non-Combat Operations NCO). Secondary missions include: Amphibious Warfare (AMW), Air Warfare (AW), Health Services (HS), Fleet Support - Operations (FS-O), Intelligence Operations (INT), Logistics (LOG), and Naval Special Warfare (NSW).

This OSIP funds modifications to the MH-60R Series aircraft to include airframe structures, avionics, weapons and mission systems.

The land based Precision Approach Radar (PAR) is the only precision approach available to the MH-60R and is slated to be replaced by Joint Precision Approach Landing System (JPALS) at Naval Air Stations. The Very high frequency Omnidirectional Radio range (VOR) navigation capability included with the Instrument Landing System (ILS) system provides instrument navigation after disestablishment of Tactical Air Command and Navigation system in the Continental United States. ILS provides precision approach capability ashore and to supplement currently available military PAR controlled approaches.

Automatic Radar Periscope Detection and Discriminator (ARPDD) provides the MH-60R the capability to detect very small, low visibility targets, such as periscopes and small vessels, and alert the aircrew to their presence from long distances, reducing aircrew workload and increasing battle group survivability. The AN/APS-153 MMR consists of the Signal Data Processor/ARPDD Enhanced Processor, Receiver Transmitter (R/T), Antenna Pedestal, Antenna Array, and IFF R/T retrofits.

Advanced Data Transfer System (ADTS) Removable Mission Equipment (RME) provides high-capacity storage and transfer of data with multi-level security enabling Moving Map Integration (MMI)and replacing obsolete components.

Oil Filter Access Modification relocates the oil filter access for the main gearbox. Provides major reliability and safety upgrade while eliminating resonance and vibration failures.

Digital Magnetic Anomaly Detector (DMAD) allows MH-60R to passively detect underwater magnetic anomalies (submarines) in the absence of external cueing, rapidly compressing the ASW kill chain with an inflight, ground truth location of an adversary submarine providing a highly accurate weapons quality track for torpedo employment. This non-acoustic detection capability helps to pace continued improvements by peer adversaries in reducing submarine acoustic signatures, while also preserving aircraft counter-detection and sonobuoy expenditures.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILSTONES: ADTS MMI kit installations began in FY 2018 and VOR ILS kit installations began in FY 2019.

JUSTIFICATION FOR REQUIREMENTS AND CHANGES: OSIP 001-06 baseline funding decreases \$1.993M from FY 2023 to FY 2024 due to the completion of procuring ADTS/MMI and the final procurement to meet requirements of VOR/ILS kits.

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0530 / MH-60 Series	Modification Number / Title: 2 / 001-06 MH-60R WARFIGHTER
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:
<p>[ADTS/MMI RME Kit] Cost Element 2.1.1 Unit cost is higher on the MH-60R than the MH-60S due to the requirement for an additional digital transfer unit in each kit.</p> <p>[SUPPORT EQUIPMENT] Cost Element 3.4 Funding in FY2024 and FY2025 is to support DMAD Support Equipment requirements including aircraft degaussing equipment.</p> <p>[ILS] Cost element 3.5 01-06 Funding is required for logistics support for the aircraft installations on the MH-60R aircraft.</p> <p>[OTHER SUPPORT] Cost element 3.6 Funding is required for acquisition, configuration/documentation management, scheduling of aircraft and installation activities, engineering, and test support required to incorporate the modifications on the MH-60R aircraft.</p>		

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Exhibit P-3a, Individual Modification: PB 2024 Navy										Date: March 2023			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0530 / MH-60 Series					Modification Number / Title: 2 / 001-06 MH-60R WARFIGHTER			
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: MH-60R				Modification Type: OPERATIONAL ENHANCEMENT, RELIABILITY				Related RDT&E PEs: 0604216N					
Financial Plan <small>(*) Indicates the modification is being installed organically and no installation funds are required.</small>	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
1.1.1) ARCHIVED ECPs - Organic ^(*)	- / 315.913	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 315.913	
1.1.2) VOR INSTRUMENT LANDING SYSTEM (ILS) - NonOrganic <i>Installation 1 of 3</i>	140 / 12.457	40 / 3.953	40 / 4.032	18 / 1.850	- / -	18 / 1.850	- / -	- / -	- / -	- / -	- / -	238 / 22.292	
1.1.3) ADTS/MMI Kit - NonOrganic <i>Installation 2 of 3</i>	185 / 14.353	20 / 1.380	9 / 0.633	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	214 / 16.366	
1.1.4) Oil Filter Access - NonOrganic <i>Installation 3 of 3</i>	- / -	- / -	30 / 0.008	60 / 0.015	- / -	60 / 0.015	60 / 0.015	60 / 0.015	36 / 0.009	14 / 0.004	13 / 0.003	273 / 0.069	
2.1.1) ADTS/MMI RME Kit - Organic ^(*)	185 / 42.411	20 / 5.025	9 / 2.307	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	214 / 49.743	
2.1.2) DMAD RME Kit - Organic ^(*)	- / -	- / -	- / -	6 / 3.600	- / -	6 / 3.600	6 / 3.600	7 / 4.200	13 / 7.800	13 / 7.800	15 / 9.000	60 / 36.000	
2.2.1) ARPDD O&A - Organic ^(*)	- / 15.131	- / 0.200	- / 0.750	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 16.081	
2.2.2) HELRAS NRE - Organic ^(*)	- / 5.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 5.000	
Subtotal: Procurement	- / 405.265	- / 10.558	- / 7.730	- / 5.465	- / -	- / 5.465	- / 3.615	- / 4.215	- / 7.809	- / 7.804	- / 9.003	- / 461.464	
Support													
3.1) ENGINEERING CHANGE ORDERS	- / 2.849	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.849	
3.2) DATA	- / 0.712	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.712	
3.3) TRAINING EQUIPMENT	- / 13.160	- / 0.414	- / 0.921	- / 0.929	- / -	- / 0.929	- / 0.436	- / -	- / -	- / -	Continuing	Continuing	
3.4) SUPPORT EQUIPMENT	- / 3.284	- / 0.661	- / 0.673	- / 1.685	- / -	- / 1.685	- / 1.697	- / -	- / -	- / -	Continuing	Continuing	
3.5) ILS	- / 17.817	- / 2.500	- / 1.700	- / 1.450	- / -	- / 1.450	- / 1.450	- / 1.350	- / 1.300	- / 1.250	Continuing	Continuing	
3.6) OTHER SUPPORT	- / 66.662	- / 6.719	- / 5.351	- / 4.738	- / -	- / 4.738	- / 4.605	- / 3.750	- / 3.750	- / 3.750	Continuing	Continuing	
3.7) INTERIM CONTRACTOR SUPPORT	- / 2.575	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.575	
Subtotal: Support	- / 107.059	- / 10.294	- / 8.645	- / 8.802	- / -	- / 8.802	- / 8.188	- / 5.100	- / 5.050	- / 5.000	Continuing	Continuing	
Installation													
Installation 1 of 3: VOR INSTRUMENT LANDING SYSTEM (ILS)	- / 8.742	- / 2.538	- / 3.760	- / 3.760	- / 0.000	- / 3.760	- / 3.625	- / -	- / -	- / -	- / 0.000	- / 22.425	
Installation 2 of 3: ADTS/MMI Kit	- / 3.477	- / 1.142	- / 0.184	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 4.803	
Installation 3 of 3: Oil Filter Access	- / -	- / -	- / 0.269	- / 0.538	- / 0.000	- / 0.538	- / 0.538	- / 0.538	- / 0.322	- / 0.126	- / 0.117	- / 2.448	
Subtotal: Installation	- / 12.219	- / 3.680	- / 4.213	- / 4.298	- / -	- / 4.298	- / 4.163	- / 0.538	- / 0.322	- / 0.126	- / 0.117	- / 29.676	
Total													
Total Cost (Procurement + Support + Installation)	524.543	24.532	20.588	18.565	0.000	18.565	15.966	9.853	13.181	12.930	Continuing	Continuing	

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Exhibit P-3a, Individual Modification: PB 2024 Navy **Date:** March 2023

Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0530 / MH-60 Series	Modification Number / Title: 2 / 001-06 MH-60R WARFIGHTER
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ID Code (A=Service Ready, B=Not Service Ready) : **MDAP/MAIS Code:**

Installation 1 of 3: VOR INSTRUMENT LANDING SYSTEM (ILS)

Manufacturer Information

Manufacturer Name: VOR/ILS--Lockheed Martin	Manufacturer Location: Owego, NY
Administrative Leadtime (in Months): 5	Production Leadtime (in Months): 14

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates	Mar 2022	Mar 2023	Mar 2024				
Delivery Dates	May 2023	May 2024	May 2025				

Installation Information

Method of Implementation: Contractor Field Mod Team:: Installation Name: VOR INSTRUMENT LANDING SYSTEM (ILS)

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	93 / 8.742	27 / 2.538	20 / 1.880	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	140 / 13.160
FY 2022	- / -	- / -	20 / 1.880	20 / 1.880	0 / 0.000	20 / 1.880	- / -	- / -	- / -	- / -	0 / 0.000	40 / 3.760
FY 2023	- / -	- / -	- / -	20 / 1.880	0 / 0.000	20 / 1.880	20 / 1.900	- / -	- / -	- / -	0 / 0.000	40 / 3.780
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	18 / 1.725	- / -	- / -	- / -	0 / 0.000	18 / 1.725
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	93 / 8.742	27 / 2.538	40 / 3.760	40 / 3.760	0 / 0.000	40 / 3.760	38 / 3.625	- / -	- / -	- / -	0 / 0.000	238 / 22.425

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot				
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4						
In	93	7	-	10	10	10	10	10	10	10	10	10	10	10	10	10	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Out	93	7	-	10	10	10	10	10	10	10	10	10	10	10	10	10	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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Exhibit P-3a, Individual Modification: PB 2024 Navy **Date:** March 2023

Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0530 / MH-60 Series	Modification Number / Title: 2 / 001-06 MH-60R WARFIGHTER
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ID Code (A=Service Ready, B=Not Service Ready) : **MDAP/MAIS Code:**

Installation 2 of 3: ADTS/MMI Kit

Manufacturer Information

Manufacturer Name: ADTS/MMI--GDIT Manufacturer Location: New Bern, NC

Administrative Leadtime (in Months): 1 Production Leadtime (in Months): 6

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates	Nov 2021	Nov 2022					
Delivery Dates	May 2022	May 2023					

Installation Information

Method of Implementation: Contractor Field Mod Team:: Installation Name: ADTS/MMI Kit

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	149 / 3.477	36 / 0.734	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	185 / 4.211
FY 2022	- / -	20 / 0.408	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	20 / 0.408
FY 2023	- / -	- / -	9 / 0.184	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	9 / 0.184
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	149 / 3.477	56 / 1.142	9 / 0.184	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	214 / 4.803

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	149	18	18	10	10	-	-	5	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Out	149	18	18	10	10	-	-	5	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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Exhibit P-3a, Individual Modification: PB 2024 Navy **Date:** March 2023

Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0530 / MH-60 Series	Modification Number / Title: 2 / 001-06 MH-60R WARFIGHTER
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ID Code (A=Service Ready, B=Not Service Ready) : **MDAP/MAIS Code:**

Installation 3 of 3: Oil Filter Access

Manufacturer Information

Manufacturer Name: ACET	Manufacturer Location: New Bern, NC
Administrative Leadtime (in Months): 1	Production Leadtime (in Months): 2

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates		Oct 2022	Oct 2023	Oct 2024	Oct 2025	Oct 2026	Oct 2027
Delivery Dates		Dec 2022	Dec 2023	Dec 2024	Dec 2025	Dec 2026	Dec 2027

Installation Information

Method of Implementation: [none specified]:: Installation Name: Oil Filter Access

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	30 / 0.269	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	30 / 0.269
FY 2024	- / -	- / -	- / -	60 / 0.538	0 / 0.000	60 / 0.538	- / -	- / -	- / -	- / -	0 / 0.000	60 / 0.538
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	60 / 0.538	- / -	- / -	- / -	0 / 0.000	60 / 0.538
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	60 / 0.538	- / -	- / -	0 / 0.000	60 / 0.538
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	36 / 0.322	- / -	0 / 0.000	36 / 0.322
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	14 / 0.126	0 / 0.000	14 / 0.126
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	13 / 0.117	13 / 0.117
Total	- / -	- / -	30 / 0.269	60 / 0.538	0 / 0.000	60 / 0.538	60 / 0.538	60 / 0.538	36 / 0.322	14 / 0.126	13 / 0.117	273 / 2.448

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	5	10	10	5	15	15	15	15	15	15	15	15	15	15	15	15	10	10	10	6	4	4	4	2	13	273
Out	-	-	-	-	-	5	10	10	5	15	15	15	15	15	15	15	15	15	15	15	15	10	10	10	6	4	4	4	2	13	273

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0530 / MH-60 Series	Modification Number / Title: 3 / 009-07 MH-60S WARFIGHTER

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	464.486	32.488	34.631	29.268	0.000	29.268	27.011	25.256	19.788	15.598	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	464.486	32.488	34.631	29.268	0.000	29.268	27.011	25.256	19.788	15.598	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	464.486	32.488	34.631	29.268	0.000	29.268	27.011	25.256	19.788	15.598	Continuing	Continuing

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

DESCRIPTION/JUSTIFICATION: The basic MH-60S conducts Search and Rescue, Combat Logistics, Humanitarian Assistance/Disaster Response (HADR). Armed Helicopter and Airborne Mine Countermeasures (AMCM) capabilities have been added for the MH-60S as block upgrades to the platform. Armed Helicopter upgrades include weapons and survivability systems with capabilities to conduct Surface Warfare (SUW) missions, provide Naval Special Warfare (NSW) support, and execute Combat Search and Rescue missions in a medium threat environment. AMCM upgrades enable employment of airborne mine detection and neutralization systems, operated as part of the Littoral Combat Ship Mine Countermeasures Mission Package.

This Operational Safety Improvement Program (OSIP) funds modifications to the MH-60S series airframe structures, avionics and mission systems, and provides for the retrofit of aircraft, training devices, and support equipment. Armed Helo Block 3A includes airframe provisions, removable mission kits, and trainer updates into Block 3A aircraft, and includes the following systems: Fixed Forward Firing Weapons (FFFW) guns and rockets, Helmet Display Tracking System (HDTS), Full Motion Video (FMV) Data Link and Externally Gun Mounted System (EGMS). EGMS will expand employment envelopes and improve operational flexibility and weapon capability.

Advanced Data Transfer System (ADTS) Removable Mission Equipment (RME) provides high-capacity storage and transfer of data with multi-level security enabling moving map integration (MMI) and replacing obsolete components.

Cabin J-Voice allows for secure line-of-sight communications with other aircraft. J-Voice will improve Crew Resource management by allowing aircrewmembers to maintain situational awareness of J-Voice communications and avoid unintentional interruptions of transmissions.

Common Aircraft Survivability Equipment (ASE) will integrate federated Radar Warning Receiver (RWR)/ Missile Warning System (MWS) symbology and audio through the mission computer into Smart Multifunction Displays (SMFDs), Multifunction Displays (MFDs), and Control Display Unit (CDUs), resulting in common infrastructure and architecture.

Oil Filter Access Modification kit provides for relocation of the oil filter access for the main gearbox. Provides major reliability and safety upgrade while eliminating resonance and vibration failures.

Modifications to the MH-60S aircraft operating in CENTCOM area of responsibility incorporate a Distributed Aperture Infrared Countermeasure (DAIRCM) capability. This system fulfills a CENTCOM JUONS for improved Missile Warning (MW) and Aircraft Survivability Equipment (ASE), with an inexhaustible countermeasure capability to pace the threat from the latest Surface to Air Weapons.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: HDTS kit installation began in FY 2017 and ADTS MMI kit installations began in FY 2018.

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0530 / MH-60 Series	Modification Number / Title: 3 / 009-07 MH-60S WARFIGHTER
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:
<p>JUSTIFICATION FOR REQUIREMENTS AND CHANGES: OSIP 009-07 baseline funding decreases \$5.363M from FY 2023 to FY 2024 due to the completion of HDTS HTKs, DAIRCM and FMV RME.</p> <p>[Data Link/FMV A Kit] Cost Element 1.1.2 Includes additional kits for the SLEP Block 1-3 upgrade.</p> <p>[HDTS A Kit] Cost Element 1.1.3 FY24-FY27 Includes additional kits for the Block 1-3 Upgrade.</p> <p>[ADTS/MMI Kits] Cost Element 1.1.4 FY24-FY27 includes additional kits for the SLEP Block 1-3 Upgrade.</p> <p>[DAIRCM A Kit] Cost Element 1.1.7 Funding is provided to procure an additional 16 DAIRCM A Kits</p> <p>[Oil Filter Access] Cost Element 1.1.8 Funding is provided for Oil Filter Access Modification kits FY23-FY28.</p> <p>[ADTS/MMI RME Kit] Cost Element 2.1.5 FY24-27 Includes additional kits for the SLEP Block 1-3 Upgrade.</p> <p>[Support Equipment] Cost Element 3.4 Funding through FY25 for the Support Equipment test sets required to field FMV at the various squadrons.</p> <p>[Other Support] Cost element 3.6 funding is required for acquisition, configuration/documentation management, scheduling of aircraft and installation activities, engineering, and test support required to incorporate the modifications on the MH-60S aircraft.</p>		

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Exhibit P-3a, Individual Modification: PB 2024 Navy										Date: March 2023			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0530 / MH-60 Series					Modification Number / Title: 3 / 009-07 MH-60S WARFIGHTER			
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: MH-60S				Modification Type: OPERATIONAL ENHANCEMENT				Related RDT&E PEs: 0604216N					
Financial Plan <small>(*) Indicates the modification is being installed organically and no installation funds are required.</small>	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
1.1.1) ARCHIVED ECPs - Organic ^(*)	- / 214.269	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 214.269	
1.1.2) Data Link/FMV A Kit - NonOrganic <i>Installation 1 of 7</i>	60 / 7.336	20 / 2.418	20 / 2.418	20 / 2.418	- / -	20 / 2.418	20 / 2.418	20 / 2.418	20 / 2.418	20 / 2.418	- / -	200 / 24.262	
1.1.3) HDTS A Kit - NonOrganic <i>Installation 2 of 7</i>	183 / 13.562	24 / 1.667	10 / 0.708	5 / 0.361	- / -	5 / 0.361	5 / 0.368	5 / 0.376	5 / 0.383	5 / 0.387	10 / 0.783	252 / 18.595	
1.1.4) ADTS/MMI Kits - NonOrganic <i>Installation 3 of 7</i>	172 / 12.163	25 / 1.804	20 / 1.472	5 / 0.375	- / -	5 / 0.375	5 / 0.375	5 / 0.375	5 / 0.375	5 / 0.376	10 / 0.760	252 / 18.075	
1.1.5) Cabin J Voice A Kit - NonOrganic <i>Installation 4 of 7</i>	- / -	38 / 0.500	41 / 0.548	40 / 0.536	- / -	40 / 0.536	40 / 0.540	40 / 0.540	40 / 0.540	18 / 0.243	- / -	257 / 3.447	
1.1.6) Common ASE A Kit - NonOrganic <i>Installation 5 of 7</i>	- / -	- / -	45 / 0.540	45 / 0.540	- / -	45 / 0.540	45 / 0.540	45 / 0.540	33 / 0.403	- / -	- / -	213 / 2.563	
1.1.7) DAIRCM A Kit - NonOrganic <i>Installation 6 of 7</i>	36 / 8.106	- / -	16 / 3.200	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	52 / 11.306	
1.1.8) Oil Filter Access - NonOrganic <i>Installation 7 of 7</i>	- / -	- / -	96 / 0.024	60 / 0.015	- / -	60 / 0.015	60 / 0.015	38 / 0.010	11 / 0.003	11 / 0.003	- / -	276 / 0.070	
2.1.1) Data Link/FMV RME - Organic ^(*)	60 / 11.786	20 / 3.923	20 / 3.923	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	100 / 19.632	
2.1.2) HDTS RME - Organic ^(*)	166 / 45.908	7 / 1.983	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	173 / 47.891	
2.1.3) HDTS Helmet Tracker (HTK) - Organic ^(*)	699 / 21.703	60 / 1.943	43 / 1.420	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	802 / 25.066	
2.1.4) H-Plate Mod Kit - Organic ^(*)	- / -	- / -	15 / 0.600	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	15 / 0.600	
2.1.5) ADTS/MMI RME Kit - Organic ^(*)	172 / 24.987	25 / 3.640	20 / 2.971	5 / 0.743	- / -	5 / 0.743	5 / 0.748	5 / 0.756	5 / 0.762	5 / 0.766	10 / 1.560	252 / 36.933	
2.1.6) Externally Gun Mounted System RME - Organic ^(*)	5 / 1.750	10 / 3.500	10 / 3.500	30 / 10.500	- / -	30 / 10.500	28 / 9.800	25 / 8.750	10 / 3.500	- / -	- / -	118 / 41.300	
2.2.1) Installation Equipment N/R - Organic ^(*)	- / 0.603	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.603	
Subtotal: Procurement	- / 362.173	- / 21.378	- / 21.324	- / 15.488	- / -	- / 15.488	- / 14.804	- / 13.765	- / 8.384	- / 4.193	- / 3.103	- / 464.612	
Support													
3.1) Engineering Change Orders	- / 0.567	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.567	
3.2) Data	- / 0.317	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.317	
3.3) Training Equipment	- / 21.311	- / 0.605	- / 1.118	- / 0.857	- / -	- / 0.857	- / 0.357	- / 0.364	- / 0.370	- / 0.375	Continuing	Continuing	
3.4) Support Equipment	- / 6.070	- / 0.235	- / 0.967	- / 0.967	- / -	- / 0.967	- / 0.709	- / -	- / -	- / -	Continuing	Continuing	
3.5) ILS	- / 14.224	- / 1.709	- / 1.743	- / 1.887	- / -	- / 1.887	- / 1.924	- / 1.962	- / 2.001	- / 2.041	Continuing	Continuing	
3.6) Other Support	- / 150.009	- / 6.821	- / 16.957	- / 17.096	- / -	- / 17.096	- / 17.180	- / 17.295	- / 17.385	- / 17.495	Continuing	Continuing	
Subtotal: Support	- / 92.498	- / 9.370	- / 10.785	- / 10.807	- / -	- / 10.807	- / 10.170	- / 9.621	- / 9.756	- / 9.911	Continuing	Continuing	
Installation													
Installation 1 of 7: Data Link/FMV A Kit	- / 0.591	- / 0.450	- / 0.307	- / 0.307	- / 0.000	- / 0.307	- / 0.336	- / 0.360	- / 0.360	- / 0.370	- / 0.380	- / 3.461	

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Exhibit P-3a, Individual Modification: PB 2024 Navy **Date:** March 2023

Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1 **P-1 Line Item Number / Title:** 0530 / MH-60 Series **Modification Number / Title:** 3 / 009-07 MH-60S WARFIGHTER

ID Code (A=Service Ready, B=Not Service Ready) : **MDAP/MAIS Code:**

Models of Systems Affected: MH-60S **Modification Type:** OPERATIONAL ENHANCEMENT **Related RDT&E PEs:** 0604216N

Financial Plan <small>(*) Indicates the modification is being installed organically and no installation funds are required.</small>	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>
Installation 2 of 7: HDTS A Kit	- / 4.248	- / 0.720	- / 0.733	- / 0.305	- / 0.000	- / 0.305	- / 0.150	- / 0.150	- / 0.150	- / 0.160	- / 0.510	- / 1.126
Installation 3 of 7: ADTS/MMI Kits	- / 3.376	- / 0.570	- / 0.468	- / 0.123	- / 0.000	- / 0.123	- / 0.123	- / 0.123	- / 0.123	- / 0.145	- / 0.300	- / 5.351
Installation 4 of 7: Cabin J Voice A Kit	- / -	- / -	- / 0.152	- / 0.164	- / 0.000	- / 0.164	- / 0.160	- / 0.160	- / 0.180	- / 0.180	- / 0.081	- / 1.077
Installation 5 of 7: Common ASE A Kit	- / -	- / -	- / -	- / 0.736	- / 0.000	- / 0.736	- / 0.736	- / 0.736	- / 0.736	- / 0.540	- / 0.000	- / 3.484
Installation 6 of 7: DAIRCM A Kit	- / 1.600	- / -	- / -	- / 0.800	- / 0.000	- / 0.800	- / -	- / -	- / -	- / -	- / 0.000	- / 2.400
Installation 7 of 7: Oil Filter Access	- / -	- / -	- / 0.862	- / 0.538	- / 0.000	- / 0.538	- / 0.532	- / 0.341	- / 0.099	- / 0.099	- / 0.000	- / 2.471
<i>Subtotal: Installation</i>	- / 9.815	- / 1.740	- / 2.522	- / 2.973	- / -	- / 2.973	- / 2.037	- / 1.870	- / 1.648	- / 1.494	- / 1.271	- / 25.370
Total												
Total Cost (Procurement + Support + Installation)	464.486	32.488	34.631	29.268	0.000	29.268	27.011	25.256	19.788	15.598	Continuing	Continuing

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Exhibit P-3a, Individual Modification: PB 2024 Navy **Date:** March 2023

Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0530 / MH-60 Series	Modification Number / Title: 3 / 009-07 MH-60S WARFIGHTER
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ID Code (A=Service Ready, B=Not Service Ready) : **MDAP/MAIS Code:**

Installation 1 of 7: Data Link/FMV A Kit

Manufacturer Information

Manufacturer Name: Cubic Defense Applications, Inc. Manufacturer Location: San Diego

Administrative Leadtime (in Months): 4 Production Leadtime (in Months): 9

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates	Feb 2022	Feb 2023	Feb 2024	Feb 2025	Feb 2026	Feb 2027	Feb 2028
Delivery Dates	Nov 2022	Nov 2023	Nov 2024	Nov 2025	Nov 2026	Nov 2027	Nov 2028

Installation Information

Method of Implementation: Depot Field Mod Team:: Installation Name: Data Link/FMV A Kit

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	30 / 0.591	30 / 0.450	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	60 / 1.041
FY 2022	- / -	- / -	20 / 0.307	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	20 / 0.307
FY 2023	- / -	- / -	- / -	20 / 0.307	0 / 0.000	20 / 0.307	- / -	- / -	- / -	- / -	0 / 0.000	20 / 0.307
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	20 / 0.336	- / -	- / -	- / -	0 / 0.000	20 / 0.336
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	20 / 0.360	- / -	- / -	0 / 0.000	20 / 0.360
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	20 / 0.360	- / -	0 / 0.000	20 / 0.360
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	20 / 0.370	0 / 0.000	20 / 0.370
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	20 / 0.380	20 / 0.380
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	30 / 0.591	30 / 0.450	20 / 0.307	20 / 0.307	0 / 0.000	20 / 0.307	20 / 0.336	20 / 0.360	20 / 0.360	20 / 0.370	20 / 0.380	200 / 3.461

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	30	7	7	8	8	2	7	8	3	2	7	8	3	2	7	8	3	5	5	5	5	5	5	5	5	5	5	5	5	20	200
Out	30	7	7	8	8	2	7	8	3	2	7	8	3	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	20	200

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Exhibit P-3a, Individual Modification: PB 2024 Navy **Date:** March 2023

Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0530 / MH-60 Series	Modification Number / Title: 3 / 009-07 MH-60S WARFIGHTER
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ID Code (A=Service Ready, B=Not Service Ready) : **MDAP/MAIS Code:**

Installation 2 of 7: HDTS A Kit

Manufacturer Information

Manufacturer Name: HDTS Akit--Elbit Systems of America Manufacturer Location: Fort Worth, TX

Administrative Leadtime (in Months): 8 Production Leadtime (in Months): 10

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates	Dec 2021	Dec 2022	Jun 2024	Jun 2025	Jun 2026	Jun 2027	Jun 2028
Delivery Dates	Oct 2022	Oct 2023	Apr 2025	Apr 2026	Apr 2027	Apr 2028	Apr 2029

Installation Information

Method of Implementation: Contractor Field Mod Team:: Installation Name: HDTS A Kit

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	159 / 4.248	24 / 0.720	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	183 / 4.968
FY 2022	- / -	- / -	24 / 0.733	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	24 / 0.733
FY 2023	- / -	- / -	- / -	10 / 0.305	0 / 0.000	10 / 0.305	- / -	- / -	- / -	- / -	0 / 0.000	10 / 0.305
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	5 / 0.150	- / -	- / -	- / -	0 / 0.000	5 / 0.150
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	5 / 0.150	- / -	- / -	0 / 0.000	5 / 0.150
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	5 / 0.150	- / -	0 / 0.000	5 / 0.150
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	5 / 0.160	0 / 0.000	5 / 0.160
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	5 / 0.170	5 / 0.170
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	10 / 0.340	10 / 0.340
Total	159 / 4.248	24 / 0.720	24 / 0.733	10 / 0.305	0 / 0.000	10 / 0.305	5 / 0.150	5 / 0.150	5 / 0.150	5 / 0.160	15 / 0.510	252 / 7.126

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	159	8	8	8	-	8	8	8	-	3	3	2	2	-	-	2	3	-	-	2	3	-	-	2	3	-	5	-	-	15	252
Out	159	8	8	8	-	8	8	8	-	3	3	-	2	2	-	-	2	3	-	-	2	3	-	-	2	3	-	5	-	15	252

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0530 / MH-60 Series	Modification Number / Title: 3 / 009-07 MH-60S WARFIGHTER

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Installation 3 of 7: ADTS/MMI Kits

Manufacturer Information

Manufacturer Name: ACET	Manufacturer Location: New Bern, NC
Administrative Leadtime (in Months): 1	Production Leadtime (in Months): 6

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates	Nov 2021	Nov 2022	Nov 2023	Nov 2024	Nov 2025	Nov 2026	Nov 2027
Delivery Dates	May 2022	May 2023	May 2024	May 2025	May 2026	May 2027	May 2028

Installation Information

Method of Implementation: Contractor Field Mod Team:: Installation Name: ADTS/MMI Kits

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	166 / 3.376	6 / 0.122	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	172 / 3.498
FY 2022	- / -	22 / 0.448	3 / 0.060	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	25 / 0.508
FY 2023	- / -	- / -	20 / 0.408	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	20 / 0.408
FY 2024	- / -	- / -	- / -	5 / 0.123	0 / 0.000	5 / 0.123	- / -	- / -	- / -	- / -	0 / 0.000	5 / 0.123
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	5 / 0.123	- / -	- / -	- / -	0 / 0.000	5 / 0.123
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	5 / 0.123	- / -	- / -	0 / 0.000	5 / 0.123
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	5 / 0.123	- / -	0 / 0.000	5 / 0.123
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	5 / 0.145	0 / 0.000	5 / 0.145
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	10 / 0.300	10 / 0.300
Total	166 / 3.376	28 / 0.570	23 / 0.468	5 / 0.123	0 / 0.000	5 / 0.123	5 / 0.123	5 / 0.123	5 / 0.123	5 / 0.145	10 / 0.300	252 / 5.351

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	166	6	-	11	11	3	-	10	10	-	-	2	3	-	-	2	3	-	-	2	3	-	-	2	3	-	-	3	2	10	252
Out	166	6	-	11	11	3	-	10	10	-	-	-	2	3	-	-	2	3	-	-	2	3	-	-	2	3	-	-	3	12	252

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy **Date:** March 2023

Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0530 / MH-60 Series	Modification Number / Title: 3 / 009-07 MH-60S WARFIGHTER
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ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Installation 4 of 7: Cabin J Voice A Kit

Manufacturer Information

Manufacturer Name: ACET	Manufacturer Location: New Bern, NC
Administrative Leadtime (in Months): 3	Production Leadtime (in Months): 9

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates	Aug 2022	Jan 2023	Jan 2024	Jan 2025	Jan 2026	Jan 2027	Jan 2028
Delivery Dates	May 2023	Oct 2023	Oct 2024	Oct 2025	Oct 2026	Oct 2027	Oct 2028

Installation Information

Method of Implementation: Contractor Field Mod Team:: Installation Name: Cabin J Voice A Kit

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	38 / 0.152	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	38 / 0.152
FY 2023	- / -	- / -	- / -	41 / 0.164	0 / 0.000	41 / 0.164	- / -	- / -	- / -	- / -	0 / 0.000	41 / 0.164
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	40 / 0.160	- / -	- / -	- / -	0 / 0.000	40 / 0.160
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	40 / 0.160	- / -	- / -	0 / 0.000	40 / 0.160
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	40 / 0.180	- / -	0 / 0.000	40 / 0.180
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	40 / 0.180	0 / 0.000	40 / 0.180
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	18 / 0.081	18 / 0.081
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	38 / 0.152	41 / 0.164	0 / 0.000	41 / 0.164	40 / 0.160	40 / 0.160	40 / 0.180	40 / 0.180	18 / 0.081	257 / 1.077

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	19	19	10	10	10	11	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	18	257
Out	-	-	-	-	-	-	-	19	19	10	10	10	11	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	18	257

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy **Date:** March 2023

Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0530 / MH-60 Series	Modification Number / Title: 3 / 009-07 MH-60S WARFIGHTER
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ID Code (A=Service Ready, B=Not Service Ready) : **MDAP/MAIS Code:**

Installation 5 of 7: Common ASE A Kit

Manufacturer Information

Manufacturer Name: ACET	Manufacturer Location: New Bern, NC
Administrative Leadtime (in Months): 2	Production Leadtime (in Months): 10

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates		Dec 2022	Dec 2023	Dec 2024	Dec 2025	Dec 2026	
Delivery Dates		Oct 2023	Oct 2024	Oct 2025	Oct 2026	Oct 2027	

Installation Information

Method of Implementation: Contractor Field Mod Team:: Installation Name: Common ASE A Kit

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	45 / 0.736	0 / 0.000	45 / 0.736	- / -	- / -	- / -	- / -	0 / 0.000	45 / 0.736
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	45 / 0.736	- / -	- / -	- / -	0 / 0.000	45 / 0.736
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	45 / 0.736	- / -	- / -	0 / 0.000	45 / 0.736
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	45 / 0.736	- / -	0 / 0.000	45 / 0.736
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	33 / 0.540	33 / 0.540
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	45 / 0.736	0 / 0.000	45 / 0.736	45 / 0.736	45 / 0.736	45 / 0.736	33 / 0.540	0 / 0.000	213 / 3.484

Installation Schedule

PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	11	11	11	12	11	11	11	12	11	11	11	12	11	11	11	12	10	10	7	6	-	213
Out	-	-	-	-	-	-	-	-	11	11	11	12	11	11	11	12	11	11	11	12	11	11	11	12	10	10	7	6	-	213

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0530 / MH-60 Series	Modification Number / Title: 3 / 009-07 MH-60S WARFIGHTER

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Installation 6 of 7: DAIRCM A Kit

Manufacturer Information

Manufacturer Name: ACET	Manufacturer Location: Cherry Point, NC
Administrative Leadtime (in Months): 2	Production Leadtime (in Months): 12

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates		Dec 2022					
Delivery Dates		Dec 2023					

Installation Information

Method of Implementation: Contractor Field Mod Team:: Installation Name: DAIRCM A Kit

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	36 / 1.600	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	36 / 1.600
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	16 / 0.800	0 / 0.000	16 / 0.800	- / -	- / -	- / -	- / -	0 / 0.000	16 / 0.800
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	36 / 1.600	- / -	- / -	16 / 0.800	0 / 0.000	16 / 0.800	- / -	- / -	- / -	- / -	0 / 0.000	52 / 2.400

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot	
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4			
In	36	-	-	-	-	-	-	-	-	-	4	6	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	52
Out	36	-	-	-	-	-	-	-	-	-	4	6	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	52

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy **Date:** March 2023

Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0530 / MH-60 Series	Modification Number / Title: 3 / 009-07 MH-60S WARFIGHTER
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ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Installation 7 of 7: Oil Filter Access

Manufacturer Information

Manufacturer Name: ACET	Manufacturer Location: New Bern, NC
Administrative Leadtime (in Months): 1	Production Leadtime (in Months): 2

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates		Oct 2022	Oct 2023	Oct 2024	Oct 2025	Oct 2026	Oct 2027
Delivery Dates		Dec 2022	Dec 2023	Dec 2024	Dec 2025	Dec 2026	Dec 2027

Installation Information

Method of Implementation: Depot Field MOD Team:: Installation Name: Oil Filter Access

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	96 / 0.862	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	96 / 0.862
FY 2024	- / -	- / -	- / -	60 / 0.538	0 / 0.000	60 / 0.538	- / -	- / -	- / -	- / -	0 / 0.000	60 / 0.538
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	60 / 0.532	- / -	- / -	- / -	0 / 0.000	60 / 0.532
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	38 / 0.341	- / -	- / -	0 / 0.000	38 / 0.341
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	11 / 0.099	- / -	0 / 0.000	11 / 0.099
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	11 / 0.099	0 / 0.000	11 / 0.099
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	96 / 0.862	60 / 0.538	0 / 0.000	60 / 0.538	60 / 0.532	38 / 0.341	11 / 0.099	11 / 0.099	0 / 0.000	276 / 2.471

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	6	30	30	30	15	15	15	15	15	15	15	15	10	10	10	8	5	6	-	-	5	6	-	-	-	-
Out	-	-	-	-	-	6	30	30	30	15	15	15	15	15	15	15	15	10	10	10	8	5	6	-	-	5	6	-	-	-	-

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0530 / MH-60 Series	Modification Number / Title: 4 / 018-12 H-60 OBSOLESCENCE AND SUSTAINMENT

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	246.309	29.193	47.801	30.759	0.000	30.759	43.194	53.079	71.863	73.852	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	246.309	29.193	47.801	30.759	0.000	30.759	43.194	53.079	71.863	73.852	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	246.309	29.193	47.801	30.759	0.000	30.759	43.194	53.079	71.863	73.852	Continuing	Continuing

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

DESCRIPTION/JUSTIFICATION: The MH-60 Aircraft are included in the Department of the Navy Aviation Plan through calendar year 2045. The MH-60 aircraft sustainment strategy targets initiatives to remedy the top age-related maintenance degraders fatigue life limiters, obsolescence and safety issues that impede the aircraft's ability to operate into the future. This effort will sustain the MH-60 in an affordable manner until the follow-on aircraft becomes available. This program implements a concentrated effort to utilize improvements to the MH-60 component obsolescence (e.g. mission computers), structural limitations (e.g. tail pylon, canted bulkhead, station 308 structural improvement), aircrew safety systems, and aircraft wiring analysis health.

In order to mitigate the risk of Diminishing Manufacturing Sources and Material Shortages (DMSMS) the MH-60 program has a proactive plan to manage the risk associated with obsolescence issues. DMSMS includes material obsolescence which may occur at the part, module, component, equipment, or other system indenture level. These situations may cause material shortages that endanger MH-60 capabilities, readiness, and life cycle support. Preliminary efforts include the incorporation of system bill of materials (BOM) for active monitoring into predictive tools to prioritize and determine risk associated with possible DMSMS occurrences. When issues arise, the solution involves procurement from alternate sources, substitution of components, life of type buys, emulation of components, or ultimately system redesign requiring the modification of MH-60 systems. Obsolescence kit procurements will be focused in the areas of air vehicle, mission systems, avionics and weapons.

Aircraft modification/replacement of the Single Board Computers (SBCs) to an Intel-based SBC with Graphics/Video in the Gen III, Gen V and Gen VI Mission Computers/Flight Mission Computers in the MH-60R/S aircraft, trainers and simulators will allow for future software builds. The current computers have obsolescence issues and do not have the memory or processing speed for new software builds.

MH-60R/S will upgrade its Link 16 capability from the Low Volume Terminal (LVT) hardware defined radio terminal to a software defined radio via the Joint Tactical Radio System (JTRS) CMN-4 terminals with procurements for the JTRS CMN-4 terminals beginning in FY23. The MIDS JTRS CMN-4 is a non-developmental item and ready for procurement. Contract award date is planned for July 2023 aligned with the Bi-annual procurements of the procuring office. Due to the overall quantity of terminals being procured and the various customers, deliveries are anticipated to be spread 12 -24 months after contract award and the priority for delivery is determined by the MIDS program office. The RDT&EN integration of MIDS JTRS CMN-4 into SC24 will be complete in FY24. The hardware can be installed immediately and function in the MH-60 fleet aircraft. As well, in order to meet the JROC mandate for Link 16 modernization by Dec 2028 the program has phased the procurements. MH-60 will be a disadvantaged user in Link 16 networks until the MIDS JTRS CMN-4 boxes are available in the aircraft.

JUSTIFICATION FOR REQUIREMENTS AND CHANGES: OSIP 018-12 baseline funding decreases by \$17.042M from FY 2023 to FY 2024 due to the completion of MC/FMC Computer Upgrades.

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0530 / MH-60 Series	Modification Number / Title: 4 / 018-12 H-60 OBSOLESCENCE AND SUSTAINMENT
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:
<p>[Avionics B Kits] Cost element 2.1.1 Efforts contain different quantities and scope each year resulting in overall cost variability. FY 2024 thru FY 2028 for obsolescence efforts regarding Advanced Flight Control Computer, Stabilator amplifier and Active Vibration Control Computer.</p> <p>[Air Vehicle B Kits] Cost element 2.1.2 Efforts contain different quantities and scope each year resulting in overall cost variability. Funding in FY 2024 thru FY 2028 is for obsolescence component kits for the Hydraulic Control Module, Fire Extinguisher Logic Module, and Distributor Box, Main Rotor Blade Fold.</p> <p>[Mission System B Kits] Cost element 2.1.3 Funding in FY 2024 thru FY 2028 is for obsolescence component kits for Multi-Spectral Targeting System (MTS)/Forward-Looking Infrared.</p> <p>[Weapons B Kits] Cost element 2.1.4 Funding in FY 2024 thru FY 2028 is for obsolescence component kits for the Armament Control Indicator.</p> <p>[MC GEN III/V Upgrade] Cost element 2.1.7 Overall contract quantity including other customers impacts unit cost.</p> <p>[MC GEN VI Upgrade] Cost element 2.1.8 Overall contract quantity to include other customers impacts unit cost.</p> <p>[FMC GEN III/V Upgrade] Cost element 2.1.9 Overall contract quantity to include other customers impacts unit cost.</p> <p>[High Definition Displays - MH60R] Cost Element 2.1.10 HD Display obsolescence will replace the current SMFD, CAMFD, and CDU displays with large area displays in both the cockpit and the SO console and provision for future High Definition input (MTS FLIR) and navigational performance improvements (RNP RNAV).</p> <p>[High Definition Displays - MH60S] Cost Element 2.1.11 HD Display obsolescence will replace the current SMFD, CAMFD, and CDU displays with large area displays in both the cockpit and the SO console and provision for future High Definition input (MTS FLIR) and navigational performance improvements (RNP RNAV).</p> <p>[MH60R/S Obsolescence NRE] Cost Element 2.2.1 Funding in FY 2024 is for emergent non-recurring engineering to address end-of-life obsolescence issues with Avionics, Air Vehicle and Mission Systems. FY 2024 to FY 2028 funding supports end-of-life obsolescence issues with Multi-Spectral Targeting System/Forward-Looking Infrared, Airborne Low Frequency Sonar, Electronic Support Measures, the Armament Control Indicator, Control Monitor Panel, Hydraulic Control Module, Fire Extinguisher Logic Module Assembly, Active Vibration Control Computer , Distributor Box Main Rotor Blade Fold, De-Ice Controller/ System, Technical Insert Acoustic Processor and Recovery Assist Secure and Traverse Control Panel.</p> <p>[MC/FMC NRE] Cost Element 2.2.2 Estimate for Over and Above Repairs.</p> <p>[Support Equipment] Cost Element 3.2 Funding in FY27-28 is to support High Definition Displays.</p> <p>[ILS] Cost element 3.3 Funding is required for logistics support to manage additional mods to include Air Vehicle and Mission Systems Kits and MIDS JTRS CMN-4.</p> <p>[Other Support] Cost element 3.4 Funding is required for acquisition, configuration/documentation management, engineering, and test support required to manage the various MC/FMC upgrade configurations on the MH-60R/S aircraft, support the Air Vehicle and Mission Systems Kits and MIDS JTRS (CMN-4).</p>		

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Exhibit P-3a, Individual Modification: PB 2024 Navy											Date: March 2023		
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0530 / MH-60 Series					Modification Number / Title: 4 / 018-12 H-60 OBSOLESCENCE AND SUSTAINMENT			
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: MH-60S, MH-60R				Modification Type: SUSTAINMENT				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
<i>Modification Item 1 of 1:</i> 018-12 H-60 OBSOLESCENCE AND SUSTAINMENT													
A Kits													
Recurring													
1.1.1) Archived ECPs - Organic	- / 10.862	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 10.862	
1.1.2) MC/FMC Wiring A Kits - Organic	322 / 4.539	139 / 1.764	30 / 0.503	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	491 / 6.806	
<i>Subtotal: Recurring</i>	- / 15.401	- / 1.764	- / 0.503	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 17.668	
B Kits													
Recurring													
2.1.1) Avionics B Kits - Organic	324 / 24.633	45 / 1.561	45 / 1.591	45 / 1.624	- / -	45 / 1.624	10 / 0.361	12 / 0.433	12 / 0.433	12 / 0.433	493 / 17.797	998 / 48.866	
2.1.2) Air Vehicle B Kits - Organic	- / -	- / -	4 / 1.377	5 / 1.721	- / -	5 / 1.721	5 / 1.721	15 / 5.163	15 / 5.163	15 / 5.163	139 / 47.843	198 / 68.151	
2.1.3) Mission System B Kits - Organic	- / -	- / -	8 / 0.694	10 / 0.868	- / -	10 / 0.868	10 / 0.868	25 / 2.170	35 / 3.038	35 / 3.038	115 / 9.982	238 / 20.658	
2.1.4) Weapons B Kits - Organic	- / -	- / -	- / -	5 / 0.518	- / -	5 / 0.518	5 / 0.528	20 / 2.155	40 / 4.396	20 / 2.200	123 / 13.653	213 / 23.450	
2.1.5) MIDS BU2 B Kits - Organic	426 / 32.421	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	426 / 32.421	
2.1.6) MIDS JTRS (CMN-4) - Organic	- / -	- / -	40 / 10.960	40 / 11.160	- / -	40 / 11.160	100 / 28.400	100 / 28.700	94 / 28.012	- / -	- / -	374 / 107.232	
2.1.7) MC GEN III/V Upgrade - Organic	275 / 31.957	140 / 11.907	114 / 10.103	10 / 1.113	- / -	10 / 1.113	- / -	- / -	- / -	- / -	- / -	539 / 55.080	
2.1.8) MC GEN VI Upgrade - Organic	21 / 3.666	10 / 1.585	10 / 1.659	3 / 0.610	- / -	3 / 0.610	- / -	- / -	- / -	- / -	- / -	44 / 7.520	
2.1.9) FMC GEN III/V Upgrade - Organic	301 / 10.804	150 / 4.851	164 / 5.565	10 / 0.384	- / -	10 / 0.384	- / -	- / -	- / -	- / -	- / -	625 / 21.604	
2.1.10) High Definition Displays - MH60R - Organic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	5 / 4.540	26 / 23.660	239 / 218.685	270 / 246.885	
2.1.11) High Definition Displays - MH60S - Organic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	5 / 3.610	23 / 16.652	227 / 164.802	255 / 185.064	
<i>Subtotal: Recurring</i>	- / 103.481	- / 19.904	- / 31.949	- / 17.998	- / -	- / 17.998	- / 31.878	- / 38.621	- / 49.192	- / 51.146	- / 472.762	- / 816.931	
Non-Recurring													
2.2.1) MH60R/S Obsolescence NRE - Organic	- / 57.896	- / 1.785	- / 4.142	- / 6.541	- / -	- / 6.541	- / 6.272	- / 9.322	- / 15.944	- / 13.745	Continuing	Continuing	
2.2.2) MC/FMC NRE - Organic	- / 16.621	- / 1.098	- / 0.793	- / 0.617	- / -	- / 0.617	- / -	- / -	- / -	- / -	- / -	- / 19.129	
<i>Subtotal: Non-Recurring</i>	- / 74.517	- / 2.883	- / 4.935	- / 7.158	- / -	- / 7.158	- / 6.272	- / 9.322	- / 15.944	- / 13.745	Continuing	Continuing	
<i>Subtotal: 018-12 H-60 OBSOLESCENCE AND SUSTAINMENT</i>	1,669 / 193.399	484 / 24.551	415 / 37.387	128 / 25.156	- / -	128 / 25.156	130 / 38.150	172 / 47.943	206 / 65.136	131 / 64.891	Continuing	Continuing	
<i>Subtotal: Procurement, All Modification Items</i>	- / 193.399	- / 24.551	- / 37.387	- / 25.156	- / -	- / 25.156	- / 38.150	- / 47.943	- / 65.136	- / 64.891	Continuing	Continuing	
Support (All Modification Items)													
3.1) Training Equipment	- / 7.180	- / 0.696	- / 0.650	- / 0.650	- / -	- / 0.650	- / -	- / -	- / -	- / 1.630	Continuing	Continuing	
3.2) Support Equipment	- / 15.012	- / -	- / 4.900	- / -	- / -	- / -	- / -	- / -	- / 1.500	- / 2.000	Continuing	Continuing	

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0530 / MH-60 Series	Modification Number / Title: 4 / 018-12 H-60 OBSOLESCENCE AND SUSTAINMENT

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Models of Systems Affected: MH-60S, MH-60R	Modification Type: SUSTAINMENT	Related RDT&E PEs:
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Financial Plan	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
3.3) ILS	- / 6.795	- / 0.286	- / 0.792	- / 0.800	- / -	- / 0.800	- / 0.808	- / 0.815	- / 0.820	- / 0.836	Continuing	Continuing
3.4) Other Support	- / 23.923	- / 3.660	- / 4.072	- / 4.153	- / -	- / 4.153	- / 4.236	- / 4.321	- / 4.407	- / 4.495	Continuing	Continuing
<i>Subtotal: Support</i>	- / 52.910	- / 4.642	- / 10.414	- / 5.603	- / -	- / 5.603	- / 5.044	- / 5.136	- / 6.727	- / 8.961	Continuing	Continuing
Installation												
<i>Subtotal: Installation</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total												
Total Cost (Procurement + Support + Installation)	246.309	29.193	47.801	30.759	0.000	30.759	43.194	53.079	71.863	73.852	Continuing	Continuing

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0530 / MH-60 Series	Modification Number / Title: 4 / 018-12 H-60 OBSOLESCENCE AND SUSTAINMENT
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:
Modification Item 1 of 1: 018-12 H-60 OBSOLESCENCE AND SUSTAINMENT		

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0530 / MH-60 Series	Modification Number / Title: 5 / 001-23 MH60S SLEP

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	0.000	0.000	18.996	16.145	0.000	16.145	17.605	31.051	32.255	55.295	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	0.000	0.000	18.996	16.145	0.000	16.145	17.605	31.051	32.255	55.295	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	0.000	0.000	18.996	16.145	0.000	16.145	17.605	31.051	32.255	55.295	Continuing	Continuing

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The MH-60 Service Life Assessment Program (SLAP) is assessing the MH-60S fleet airframe's ability to meet its designed service life of 10,000 hours. The highest flight time MH-60S helicopter are expected to exceed the design life limit in FY2024, at which time as many as 30 aircraft per year could be removed from flight status without a SLAP and a follow-on Service Life Extension Program (SLEP). MH-60 SLAP is comprised of two distinct assessments: Fatigue Life Assessment (FLA), which will establish the fatigue life of the aircraft and air vehicle systems and Subsystems Life Assessment (SLA), which will examine subsystems critical to safe operations and identify risk mitigation strategies for critical components. Initial data from FLA was received Dec 2021 to support the initiation of SLEP Mod 1 ECP development. The MH-60 design/development engineering efforts for SLEP Block 1 to 3 will complete in FY2023 with RDT&EN funding and the procurement of SLEP Block 1 to 3 upgrade modification kits will begin using APN-5 funding. Installs begin in FY2024. The SLEP Mod 1 Kit ECP development continues to support the FY2026 procurement. These modifications will incorporate change to improve primary aircraft structure and subsystem to increase aircraft service life and flight hours. This Fatigue Life is expected to meet Chief of Naval Operations (CNO) operational inventory requirements through FY2035. These Modifications will be implemented at a Depot level in conjunction with the current planned maintenance interval schedule. SLEP is a New Start in FY 2023.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: SLA was completed in FY2020. Initial FLA data was received Dec 2021. FLA final report was received August of 2022. FLA was funded via the MH-60 SLAP RDT&EN/ PE 0702207N PU 3384.

SLEP Block upgrade/Block 3B Conversion ECP development Feb 2021 - Sep 2022 (SLAP RDT&EN)

SLEP Block Upgrade Kit procurements annually June 2023 - April 2029 (APN-5)

SLEP Mod kit ECP development April 2022 - Sep 2026 (SLAP RDT&EN)

SLEP Mod 1 kit procurements begin March 2026 (APN-5)

JUSTIFICATION FOR REQUIREMENTS AND CHANGES: OSIP 01-23 baseline funding decreases by \$2.851M from FY 2023 to FY 2024 due to increase of kits procured in FY23 due to congressional plus up.

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Exhibit P-3a, Individual Modification: PB 2024 Navy										Date: March 2023			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0530 / MH-60 Series					Modification Number / Title: 5 / 001-23 MH60S SLEP			
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: MH60S				Modification Type: TBD				Related RDT&E PEs: 0702207N					
Financial Plan	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
1.1.1) SLEP BLK Upgrade - NonOrganic <i>Installation 1 of 2</i>	- / -	- / -	9 / 16.505	5 / 9.170	- / -	5 / 9.170	4 / 7.459	5 / 9.480	5 / 9.669	5 / 9.863	6 / 11.880	39 / 74.026	
1.1.2) Mod 1 Kit - NonOrganic <i>Installation 2 of 2</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	13 / 13.423	9 / 9.480	14 / 15.041	196 / 214.032	232 / 251.976	
Subtotal: Procurement	- / 0.000	- / -	- / 16.505	- / 9.170	- / -	- / 9.170	- / 7.459	- / 22.903	- / 19.149	- / 24.904	- / 225.912	- / 326.002	
Support													
2.2) Data	- / -	- / -	- / 0.100	- / 0.030	- / -	- / 0.030	- / 0.030	- / 0.030	- / 0.030	- / 0.030	Continuing	Continuing	
2.3) ILS	- / -	- / -	- / 0.250	- / 0.255	- / -	- / 0.255	- / 0.260	- / 0.265	- / 0.270	- / 0.276	Continuing	Continuing	
2.4) Other Support	- / -	- / -	- / 2.141	- / 2.550	- / -	- / 2.550	- / 2.601	- / 2.653	- / 2.706	- / 2.760	Continuing	Continuing	
Subtotal: Support	- / 0.000	- / -	- / 2.491	- / 2.835	- / -	- / 2.835	- / 2.891	- / 2.948	- / 3.006	- / 3.066	Continuing	Continuing	
Installation													
Installation 1 of 2: SLEP BLK Upgrade	- / -	- / -	- / -	- / 4.140	- / 0.000	- / 4.140	- / 7.255	- / 5.200	- / 4.200	- / 5.200	- / 12.920	- / 38.915	
Installation 2 of 2: Mod 1 Kit	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 5.900	- / 22.125	- / 314.175	- / 342.200	
Subtotal: Installation	- / 0.000	- / -	- / -	- / 4.140	- / -	- / 4.140	- / 7.255	- / 5.200	- / 10.100	- / 27.325	- / 327.095	- / 381.115	
Total													
Total Cost (Procurement + Support + Installation)	0.000	0.000	18.996	16.145	0.000	16.145	17.605	31.051	32.255	55.295	Continuing	Continuing	

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Exhibit P-3a, Individual Modification: PB 2024 Navy **Date:** March 2023

Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0530 / MH-60 Series	Modification Number / Title: 5 / 001-23 MH60S SLEP
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ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Installation 1 of 2: SLEP BLK Upgrade

Manufacturer Information

Manufacturer Name: SLEP BLK Upgrade - Lockheed Martin	Manufacturer Location: Owego, NY
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Administrative Leadtime (in Months): 6	Production Leadtime (in Months): 12
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Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates		Jun 2023	Apr 2024	Apr 2025	Apr 2026	Apr 2027	Apr 2028
Delivery Dates		Apr 2024	Apr 2025	Apr 2026	Apr 2027	Apr 2028	Apr 2029

Installation Information

Method of Implementation: Depot Field Mod Team:: Installation Name: SLEP BLK Upgrade

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	4 / 4.140	0 / 0.000	4 / 4.140	5 / 5.175	- / -	- / -	- / -	0 / 0.000	9 / 9.315
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	2 / 2.080	3 / 3.120	- / -	- / -	0 / 0.000	5 / 5.200
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 2.080	2 / 2.120	- / -	0 / 0.000	4 / 4.200
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 2.080	3 / 3.120	0 / 0.000	5 / 5.200
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 2.080	3 / 3.120	5 / 5.200
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	5 / 5.200	5 / 5.200
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4 / 4.600	4 / 4.600
Total	- / -	- / -	- / -	4 / 4.140	0 / 0.000	4 / 4.140	7 / 7.255	5 / 5.200	4 / 4.200	5 / 5.200	12 / 12.920	37 / 38.915

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	-	2	2	2	3	1	1	1	2	1	1	1	1	1	1	1	2	1	1	12	37
Out	-	-	-	-	-	-	-	-	-	-	-	-	2	2	2	3	1	1	1	2	1	1	1	1	1	1	1	2	1	13	37

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy **Date:** March 2023

Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0530 / MH-60 Series	Modification Number / Title: 5 / 001-23 MH60S SLEP
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ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Installation 2 of 2: Mod 1 Kit

Manufacturer Information

Manufacturer Name: Mod 1 Kit - Lockheed Martin	Manufacturer Location: Owego, NY
Administrative Leadtime (in Months): 5	Production Leadtime (in Months): 13

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates					Mar 2026	Mar 2027	Mar 2028
Delivery Dates					Apr 2027	Apr 2028	Apr 2029

Installation Information

Method of Implementation: Depot Field Mod Team:: Installation Name: Mod 1 Kit

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4 / 5.900	9 / 13.275	0 / 0.000
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	6 / 8.850	3 / 4.425	9 / 13.275
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	14 / 21.000	14 / 21.000
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	196 / 288.750	196 / 288.750
Total	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4 / 5.900	15 / 22.125	213 / 314.175

Installation Schedule

PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	2	4	5	3	3	213	232
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	2	4	5	3	216	232

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy	Date: March 2023
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Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0530 / MH-60 Series	Modification Number / Title: 6 / Inactive OSIPs
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ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	413.809	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	413.809
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	413.809	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	413.809
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	413.809	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	413.809

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Inactive OSIPs prior year totals.

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Exhibit P-3a, Individual Modification: PB 2024 Navy										Date: March 2023		
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0530 / MH-60 Series						Modification Number / Title: 6 / Inactive OSIPs		
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:					
Models of Systems Affected: [No Model Specified]				Modification Type: TBD				Related RDT&E PEs:				
Financial Plan <small>(*) Indicates the modification is being installed organically and no installation funds are required.</small>	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>
Procurement												
1.1.1) Inactive OSIPs - Organic ^(*)	- / 413.809	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 413.809
<i>Subtotal: Procurement</i>	- / 413.809	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 413.809
Installation												
<i>Subtotal: Installation</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total												
Total Cost (Procurement + Support + Installation)	413.809	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	413.809

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2024 Navy **Date:** March 2023

Appropriation / Budget Activity / Budget Sub Activity: 1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft	P-1 Line Item Number / Title: 0532 / H-1 Series
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: 0604245N
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	967.714	118.778	122.498	114.284	0.000	114.284	152.833	155.062	167.929	175.024	903.713	2,877.835
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	967.714	118.778	122.498	114.284	0.000	114.284	152.833	155.062	167.929	175.024	903.713	2,877.835
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	967.714	118.778	122.498	114.284	0.000	114.284	152.833	155.062	167.929	175.024	903.713	2,877.835

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

This line item funds modifications to the UH-1Y and AH-1Z aircraft and related systems. This budget line item is aligned with the Marine Corps' top three H-1 Upgrades priorities of Digital Interoperability (DI), improve survivability, and increase lethality while addressing obsolescence and improve reliability. Modifications also improve readiness, increase aircraft availability, and decrease operating costs. Reliability improvements and obsolescence management will reduce flight hour costs, maintain/increase operational capability, and increase time on wing. Improvements include software upgrades and integration test assets to support engineering modifications.

The mission of the UH-1Y utility helicopter is to provide combat assault, offensive air support, and command and control under day/night and adverse weather conditions and special operations support such as supporting arms coordination and casualty evacuation. UH-1Y is crewed by two pilots and two crew chiefs with max capacity of 12 personnel.

The mission of the AH-1Z attack helicopter is to provide offensive air support, anti-armor, armed escort, armed/visual reconnaissance, anti-helicopter and point air defense and fire support coordination during day/night conditions. Current armament includes the Sidewinder and Hellfire missiles, Joint Air-to-Ground Missile (JAGM), a chin-mounted 20mm turret, and a wide variety of forward-firing and gravity-released external stores. AH-1Z is a tandem, two-seat attack helicopter.

OSIP 15-12: OSIP incorporates modifications to H-1 avionics systems, for instance; Digital Interoperability (DI), line of sight communications, over the horizon communications, and mission computers. DI provides Maritime Multi-Domain awareness/Kill-web enabler and effector, facilitates command and control, H-1 air-to-air/air-to-ground shore based and maritime information sharing, shortens the kill chain, and improves battlefield information and intelligence sharing. DI incorporates a family of systems that includes ANW-2 (Advanced Network Wideband), ADTS (Advanced Data Transfer System), FMV (Full Motion Video, RFID (Radio Frequency Identification) and TACDS (Tactical Cross Domain Solution). Link-16 provides tactical airborne network capability between friendly aircraft, ground, and sea units. Without DI, H-1 will lack ability to execute Digitally Aided Close Air Support (DACAS). Improvements leverage common architectures and existing technology to minimize development costs, procurement costs, and fielding time. Mission computer (the "brains" of the aircraft that provide pilot control of aircraft systems) addresses obsolescence and capability improvements, and is an enabler to APR-39D(V)2, Link-16, and Joint Air-to Ground Missile (JAGM).

OSIP 16-12: OSIP incorporates APR-39D(V)2 integration, obsolescence mitigation to the Target Sight System (TSS), and procurement of Turret Electrical Unit (TEU/VPX) in support of USMC Joint Air-to Ground Missile, (JAGM), capability. APR-39D(V)2 increases aircraft survivability against proliferated threats and replaces the obsolete APR39B(V)2 system.

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Exhibit P-40, Budget Line Item Justification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft		P-1 Line Item Number / Title: 0532 / H-1 Series
ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: 0604245N
Line Item MDAP/MAIS Code: N/A		
<p>OSIP 13-14: OSIP incorporates modifications to Air Vehicle systems, specifically attacking enablers for avionics, sensors, and weapons systems and the highest readiness degraders. Funds required to improve aircraft elements such as component reliability of the main gearbox system, tail rotor drive system, thermal and electrical power management, drive plate, fuel system, and combining gearbox, reducing sustainment costs and increasing safety. Funds are required to improve maintainability through the floorboard upgrade which significantly reduce cost and time for maintenance by reducing time at intermediate or depot level maintenance.</p> <p>Aircraft inventory objectives for FY 2024: 130 UH-1Y aircraft; 160 AH-1Z aircraft.</p>		

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Exhibit P-40, Budget Line Item Justification: PB 2024 Navy **Date: March 2023**

Appropriation / Budget Activity / Budget Sub Activity: 1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft **P-1 Line Item Number / Title:** 0532 / H-1 Series

ID Code (A=Service Ready, B=Not Service Ready): A **Program Elements for Code B Items:** N/A **Other Related Program Elements:** 0604245N

Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	1 / H-1 AVIONICS IMPROVEMENTS (OSIP 015-12) (Operational Improvement)				- / 297.408	- / 52.619	- / 38.932	- / 54.022	- / 0.000	- / 54.022
P-3a	2 / H-1 SENSORS AND WEAPONS IMPROVEMENTS (OSIP 016-12) (Operational Improvement)				- / 152.776	- / 30.941	- / 16.766	- / 20.722	- / 0.000	- / 20.722
P-3a	3 / H-1 AIR VEHICLE IMPROVEMENTS (OSIP 013-14) (Safety/Reliability Improvements)				- / 223.251	- / 35.218	- / 66.800	- / 39.540	- / 0.000	- / 39.540
P-3a	4 / INACTIVE OSIPS (TBD)				- / 294.279	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000
P-40	Total Gross/Weapon System Cost				- / 967.714	- / 118.778	- / 122.498	- / 114.284	- / 0.000	- / 114.284

Exhibits Schedule					FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	1 / H-1 AVIONICS IMPROVEMENTS (OSIP 015-12) (Operational Improvement)				- / 67.756	- / 64.373	- / 73.812	- / 78.868	- / 264.667	- / 992.457
P-3a	2 / H-1 SENSORS AND WEAPONS IMPROVEMENTS (OSIP 016-12) (Operational Improvement)				- / 19.757	- / 20.192	- / 16.444	- / 16.758	- / 100.626	- / 394.982
P-3a	3 / H-1 AIR VEHICLE IMPROVEMENTS (OSIP 013-14) (Safety/Reliability Improvements)				- / 65.320	- / 70.497	- / 77.673	- / 79.398	- / 538.420	- / 1,196.117
P-3a	4 / INACTIVE OSIPS (TBD)				- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 294.279
P-40	Total Gross/Weapon System Cost				- / 152.833	- / 155.062	- / 167.929	- / 175.024	- / 903.713	- / 2,877.835

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

Justification:
 FY 2024 budget request prioritizes procurement of systems or enablers related to the top three Marine Corps priorities for H-1: DI (Link-16), survivability (APR-39 D(V)2), and lethality (enabler - Structural Improvement and Electrical Power Upgrade (SIEPU)). Improvements to safety of flight, maintenance, obsolescence (Diminishing Manufacturing Sources/Material Shortages), aircrew situational awareness and readiness degrader items yield a more interoperable and survivable H-1 force. Systems improved on H-1 aircraft leverage common avionics architectures to mitigate development costs, procurement costs, and reduce fielding timelines while attacking the highest readiness degraders and improve readiness rates.

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0532 / H-1 Series	Modification Number / Title: 1 / H-1 AVIONICS IMPROVEMENTS (OSIP 015-12)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	297.408	52.619	38.932	54.022	0.000	54.022	67.756	64.373	73.812	78.868	264.667	992.457
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	297.408	52.619	38.932	54.022	0.000	54.022	67.756	64.373	73.812	78.868	264.667	992.457
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	297.408	52.619	38.932	54.022	0.000	54.022	67.756	64.373	73.812	78.868	264.667	992.457

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

This Operational Safety and Improvement Program (OSIP) incorporates changes to H-1 avionics systems, specifically addressing and enabling the Marine Corps top three priorities (Digital Interoperability (DI), Survivability, and Lethality). Additionally, this OSIP attacks the highest readiness degraders to reduce the total cost of ownership while improving ready based aircraft and ready-for-tasking rates. Improvements to safety of flight, maintenance, obsolescence (Diminishing Manufacturing Sources/Material Shortages), and readiness degrader items will yield a more interoperable and survivable H-1 force to sustain warfighter capability in support of worldwide operations. Systems modified and improved on H-1 aircraft will leverage common architectures and utilize existing technology to the maximum extent practical to minimize development and procurement costs and to reduce the time to field the modifications. Funds will be used for ancillary support such as mission planning, conditioned based material planning/execution, and software support requirements.

FY24 funds utilization:

DI Link-16 effort: FY24 continues procurement of 26 A/B Kits and Training Equipment, which will allow H-1 aircraft to operate with digital interoperability throughout training and contested environments. Link-16 fulfills the Commandant's top priority of interoperability by providing Maritime Multi-Domain awareness/Kill-web enabler and effector, facilitates command and control, H-1 air-to-air/air-to-ground shore based and maritime information sharing, shortens the kill chain, and improves battlefield information and intelligence sharing. Link-16 requires enabling technology to include the Advanced Data Transfer System (ADTS).

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: N/A

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Exhibit P-3a, Individual Modification: PB 2024 Navy										Date: March 2023			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0532 / H-1 Series					Modification Number / Title: 1 / H-1 AVIONICS IMPROVEMENTS (OSIP 015-12)			
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: UH-1Y, AH-1Z			Modification Type: Operational Improvement				Related RDT&E PEs:						
Financial Plan <small>(*) Indicates the modification is being installed organically and no installation funds are required.</small>	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total	
	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	
Procurement													
1.1.1) DI Link-16 (UH-1Y/AH-1Z) - NonOrganic ⁽¹⁾ <i>Installation 1 of 2</i>	24 / 3.000	28 / 5.731	16 / 3.376	26 / 5.651	- / -	26 / 5.651	24 / 5.372	22 / 5.072	22 / 5.225	32 / 7.827	96 / 24.464	290 / 65.718	
1.1.2) ARC-210 GEN MUOS (UH-1Y) - NonOrganic <i>Installation 2 of 2</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	22 / 1.699	22 / 1.750	86 / 6.644	130 / 10.093	
1.1.3) Archived Mods - Organic ⁽⁴⁾	207 / 11.341	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	207 / 11.341	
1.2.1) Installation Kits N/R - Organic ⁽⁴⁾	- / 136.731	- / 2.100	- / -	- / -	- / -	- / -	- / 16.200	- / 13.487	- / 14.437	- / -	- / -	- / 82.955	
2.1.1) DI Link-16 (UH-1Y/AH-1Z) - Organic ⁽⁴⁾	24 / 25.152	28 / 30.338	16 / 17.872	26 / 29.913	- / -	26 / 29.913	24 / 28.441	22 / 26.853	22 / 27.658	32 / 41.437	96 / 129.506	290 / 357.170	
2.1.2) ARC-210 MUOS (UH-1Y) - Organic ⁽⁴⁾	18 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	22 / 6.922	22 / 7.129	68 / 22.037	130 / 36.088	
2.1.3) Archived Mods - Organic ⁽⁴⁾	1,627 / 100.372	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1,627 / 100.372	
2.2.1) Installation Equipment N/R - Organic ⁽⁴⁾	- / 179.914	- / 1.900	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 81.814	
Subtotal: Procurement	- / 256.510	- / 40.069	- / 21.248	- / 35.564	- / -	- / 35.564	- / 50.013	- / 45.412	- / 55.941	- / 58.143	- / 182.651	- / 745.551	
Support													
3.1) Engineering Change Orders	- / 0.001	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.001	
3.2) Data	- / 1.994	- / -	- / 0.300	- / 0.300	- / -	- / 0.300	- / 0.400	- / -	- / -	- / -	- / -	- / 12.994	
3.3) Training Equipment ⁽²⁾	- / 0.331	- / -	2 / 2.220	2 / 2.266	- / -	2 / 2.266	3 / 3.501	3 / 3.714	3 / 3.826	3 / 3.826	4 / 5.254	20 / 24.938	
3.4) Support Equipment	- / 1.244	- / -	- / -	- / 0.198	- / -	- / 0.198	- / 0.248	- / -	- / -	- / -	- / -	- / 1.690	
3.5) ILS	- / 4.082	- / 2.039	- / 2.064	- / 2.027	- / -	- / 2.027	- / 1.989	- / 1.989	- / 1.927	- / 2.188	- / 8.395	- / 26.700	
3.6) Other Support	- / 133.246	- / 10.511	- / 9.500	- / 9.341	- / -	- / 9.341	- / 9.059	- / 8.996	- / 8.066	- / 8.618	- / 29.922	- / 127.259	
Subtotal: Support	- / 40.898	- / 12.550	- / 14.084	- / 14.132	- / -	- / 14.132	- / 15.197	- / 14.699	- / 13.819	- / 14.632	- / 43.571	- / 183.582	
Installation													
Installation 1 of 2: DI Link-16 (UH-1Y/AH-1Z)	- / -	- / -	- / 3.600	- / 4.326	- / 0.000	- / 4.326	- / 2.546	- / 4.262	- / 4.052	- / 3.826	- / 26.987	- / 49.599	
Installation 2 of 2: ARC-210 GEN MUOS (UH-1Y)	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.267	- / 11.458	- / 13.725	
Subtotal: Installation	- / 0.000	- / -	- / 3.600	- / 4.326	- / -	- / 4.326	- / 2.546	- / 4.262	- / 4.052	- / 6.093	- / 38.445	- / 63.324	
Total													
Total Cost (Procurement + Support + Installation)	297.408	52.619	38.932	54.022	0.000	54.022	67.756	64.373	73.812	78.868	264.667	992.457	

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0532 / H-1 Series	Modification Number / Title: 1 / H-1 AVIONICS IMPROVEMENTS (OSIP 015-12)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Installation 1 of 2: DI Link-16 (UH-1Y/AH-1Z)

Manufacturer Information

Manufacturer Name: DI Link-16	Manufacturer Location: Woodland Hills, CA
Administrative Leadtime (in Months): 3	Production Leadtime (in Months): 24

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates	Jan 2022	Jan 2023	Jan 2024	Jan 2025	Jan 2026	Jan 2027	Jan 2028
Delivery Dates	Feb 2024	Feb 2025	Feb 2026	Feb 2027	Feb 2028	Feb 2029	Feb 2030

Installation Information

Method of Implementation: Contractor Field Mod Team (CFMT):: Installation Name: DI Link-16 (UH-1Y/AH-1Z)

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	24 / 3.600	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	24 / 3.600
FY 2022	- / -	- / -	- / -	28 / 4.326	0 / 0.000	28 / 4.326	- / -	- / -	- / -	- / -	0 / 0.000	28 / 4.326
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	16 / 2.546	- / -	- / -	- / -	0 / 0.000	16 / 2.546
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	26 / 4.262	- / -	- / -	0 / 0.000	26 / 4.262
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	24 / 4.052	- / -	0 / 0.000	24 / 4.052
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	22 / 3.826	0 / 0.000	22 / 3.826
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	22 / 3.940	22 / 3.940
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	32 / 5.731	32 / 5.731
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	96 / 17.316	96 / 17.316
Total	- / -	- / -	24 / 3.600	28 / 4.326	0 / 0.000	28 / 4.326	16 / 2.546	26 / 4.262	24 / 4.052	22 / 3.826	150 / 26.987	290 / 49.599

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	8	8	8	-	10	9	9	-	6	5	5	-	9	9	8	-	8	8	8	-	8	8	6	150	290
Out	-	-	-	-	-	-	8	8	8	-	10	9	9	-	6	5	5	-	9	9	8	-	8	8	8	-	8	8	6	150	290

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0532 / H-1 Series	Modification Number / Title: 1 / H-1 AVIONICS IMPROVEMENTS (OSIP 015-12)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Installation 2 of 2: ARC-210 GEN MUOS (UH-1Y)

Manufacturer Information

Manufacturer Name: ARC-210 Gen RT-2036 Mobile User Objective System (MUOS)	Manufacturer Location: TBD
Administrative Leadtime (in Months): 3	Production Leadtime (in Months): 13

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates						Jan 2027	Jan 2028
Delivery Dates						Feb 2028	Feb 2029

Installation Information

Method of Implementation: Contractor Field Mod Team (CFMT):: Installation Name: ARC-210 GEN MUOS (UH-1Y)

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	22 / 2.267	0 / 0.000
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	22 / 2.334	22 / 2.334
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	86 / 9.124	86 / 9.124
Total	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	22 / 2.267	108 / 11.458
												130 / 13.725

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot				
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4						
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11	11	-	108	130	
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11	11	108	130

Footnotes:
 (1) 1.1.1 DI Link-16: FY24 will be executed on an Indefinite Delivery, Indefinite Quantity (IDIQ) contract where step ladder pricing will result in the unit cost variations.
 (2) 3.3 Training Equipment: Training funding is for DI Link-16 flight trainer updates.

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0532 / H-1 Series	Modification Number / Title: 2 / H-1 SENSORS AND WEAPONS IMPROVEMENTS (OSIP 016-12)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	152.776	30.941	16.766	20.722	0.000	20.722	19.757	20.192	16.444	16.758	100.626	394.982
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	152.776	30.941	16.766	20.722	0.000	20.722	19.757	20.192	16.444	16.758	100.626	394.982
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	152.776	30.941	16.766	20.722	0.000	20.722	19.757	20.192	16.444	16.758	100.626	394.982

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

This Operational Safety and Improvement Program (OSIP) incorporates modifications to H-1 warfighting and survivability systems that will increase H-1 aircrew's ability to detect, identify and destroy targets while also increasing the survivability of H-1 aircraft and aircrew on the battlefield. This OSIP also attacks the highest readiness degraders, reducing total cost and significantly improving ready-for-tasking rates. Improvements to safety of flight, reduced maintenance requirements, addressing obsolescence, and correcting readiness degrader items will yield a more survivable and interoperable fleet to meet warfighter capability requirements.

FY24 funds utilization:

APR-39D(V)2: FY24 continues procurement of 34 A-Kits and installations of the APR-39 D(V)2 system. This is a critical upgrade to replace the obsolete APR-39 B(V)2, the warning radar receiver, which cannot be updated to react to emerging threats. System increases survivability and situational awareness via interactive management of all onboard sensors and countermeasures.

Turret Electrical Unit (TEU/VPX): FY24 procures 7 B-Kits of the TEU/VPX system. This is required for the employment of the Joint Air-to-Ground Missile (JAGM) which provides AH-1Z with dual-seeker precision guided missile and a true fire-and-forget capability not currently possessed.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: TSS N/R will complete and initial procurement will begin in FY25.

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy										Date: March 2023			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0532 / H-1 Series					Modification Number / Title: 2 / H-1 SENSORS AND WEAPONS IMPROVEMENTS (OSIP 016-12)			
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: UH-1Y, AH-1Z			Modification Type: Operational Improvement				Related RDT&E PEs:						
Financial Plan <small>(*) Indicates the modification is being installed organically and no installation funds are required.</small>	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total	
	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	
Procurement													
1.1.1) APR-39D(V)2 (UH-1Y/AH-1Z) - NonOrganic ⁽³⁾ <i>Installation 1 of 1</i>	26 / 2.225	26 / 2.267	27 / 2.654	34 / 3.442	- / -	34 / 3.442	10 / 1.043	8 / 0.859	9 / 0.996	9 / 1.025	85 / 9.975	234 / 24.486	
1.2.2) Archived Mods - Organic ^(*)	200 / 15.451	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	200 / 15.451	
2.1.1) Target Sight System (TSS) Obsolescence Upgrade (AH-1Z) - Organic ^(*)	- / -	- / -	- / -	- / -	- / -	- / -	13 / 5.356	14 / 5.941	14 / 6.119	14 / 6.303	105 / 47.925	160 / 71.644	
2.1.2) Turret Electronic Unit (TEU)/VPX (AH-1Z) - Organic ^(*)	15 / 5.250	39 / 14.060	- / -	7 / 3.500	- / -	7 / 3.500	- / -	- / -	- / -	- / -	- / -	61 / 22.810	
2.1.3) Archived Mods - Organic ^(*)	249 / 58.961	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	249 / 58.961	
2.2.1) Installation Equipment N/R - Organic ^(*)	- / 25.941	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 25.941	
Subtotal: Procurement	- / 107.828	- / 16.327	- / 2.654	- / 6.942	- / -	- / 6.942	- / 6.399	- / 6.800	- / 7.115	- / 7.328	- / 57.900	- / 219.293	
Support													
3.1) Engineering Change Orders	- / 2.304	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.304	
3.2) Data	- / 3.315	- / -	- / 0.242	- / 0.155	- / -	- / 0.155	- / 0.092	- / 0.047	- / 0.050	- / 0.051	- / -	- / 3.952	
3.4) Support Equipment	- / 1.057	- / 4.162	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 5.219	
3.5) ILS	- / 8.037	- / 1.869	- / 1.891	- / 1.914	- / -	- / 1.914	- / 1.937	- / 1.961	- / 2.019	- / 2.170	- / 7.304	- / 29.102	
3.6) Other Support	- / 30.235	- / 8.583	- / 7.962	- / 7.573	- / -	- / 7.573	- / 6.903	- / 5.644	- / 5.521	- / 5.776	- / 16.466	- / 94.663	
Subtotal: Support	- / 44.948	- / 14.614	- / 10.095	- / 9.642	- / -	- / 9.642	- / 8.932	- / 7.652	- / 7.590	- / 7.997	- / 23.770	- / 135.240	
Installation													
Installation 1 of 1: APR-39D(V)2 (UH-1Y/AH-1Z)	- / -	- / -	- / 4.017	- / 4.138	- / 0.000	- / 4.138	- / 4.426	- / 5.740	- / 1.739	- / 1.433	- / 18.956	- / 40.449	
Subtotal: Installation	- / 0.000	- / -	- / 4.017	- / 4.138	- / -	- / 4.138	- / 4.426	- / 5.740	- / 1.739	- / 1.433	- / 18.956	- / 40.449	
Total													
Total Cost (Procurement + Support + Installation)	152.776	30.941	16.766	20.722	0.000	20.722	19.757	20.192	16.444	16.758	100.626	394.982	

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0532 / H-1 Series	Modification Number / Title: 2 / H-1 SENSORS AND WEAPONS IMPROVEMENTS (OSIP 016-12)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Installation 1 of 1: APR-39D(V)2 (UH-1Y/AH-1Z)

Manufacturer Information

Manufacturer Name: APR-39D(V)2	Manufacturer Location: TBD
Administrative Leadtime (in Months): 7	Production Leadtime (in Months): 24

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates	May 2022	May 2023	May 2024	May 2025	May 2026	May 2027	May 2028
Delivery Dates	May 2024	May 2025	May 2026	May 2027	May 2028	May 2029	May 2030

Installation Information

Method of Implementation: Contractor Field Mod Team (CFMT):: Installation Name: APR-39D(V)2 (UH-1Y/AH-1Z)

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	26 / 4.017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	26 / 4.017
FY 2022	- / -	- / -	- / -	26 / 4.138	0 / 0.000	26 / 4.138	- / -	- / -	- / -	- / -	0 / 0.000	26 / 4.138
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	27 / 4.426	- / -	- / -	- / -	0 / 0.000	27 / 4.426
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	34 / 5.740	- / -	- / -	0 / 0.000	34 / 5.740
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	10 / 1.739	- / -	0 / 0.000	10 / 1.739
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	8 / 1.433	0 / 0.000	8 / 1.433
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	9 / 1.565	9 / 1.565
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	9 / 1.710	9 / 1.710
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	85 / 15.681	85 / 15.681
Total	- / -	- / -	26 / 4.017	26 / 4.138	0 / 0.000	26 / 4.138	27 / 4.426	34 / 5.740	10 / 1.739	8 / 1.433	103 / 18.956	234 / 40.449

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	13	13	-	-	13	13	-	-	14	13	-	-	17	17	-	-	5	5	-	-	4	4	103	234
Out	-	-	-	-	-	-	-	-	13	13	-	-	13	13	-	-	14	13	-	-	17	17	-	-	5	-	-	4	4	108	234

Footnotes:
⁽³⁾ 1.1.1 APR-39D(V)2: The A-Kit is procured by PMA-276. FY24 A-Kit procurement will support installs for previously delivered B-Kits. B Kits are procured by PMA-272 (BLI: 0576 / OSIP: 014-90).

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0532 / H-1 Series	Modification Number / Title: 3 / H-1 AIR VEHICLE IMPROVEMENTS (OSIP 013-14)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	223.251	35.218	66.800	39.540	0.000	39.540	65.320	70.497	77.673	79.398	538.420	1,196.117
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	223.251	35.218	66.800	39.540	0.000	39.540	65.320	70.497	77.673	79.398	538.420	1,196.117
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	223.251	35.218	66.800	39.540	0.000	39.540	65.320	70.497	77.673	79.398	538.420	1,196.117

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

This Operational Safety and Improvement Program (OSIP) (13-14) incorporates a number of modifications to H-1 Air Vehicle systems, specifically targeting safety, capability improvements, and trending readiness degraders aimed at reducing total cost of ownership while improving Mission Capable (MC) and Full Mission Capable (FMC) rates. Factors that contribute to top-level readiness degraders include increased failures caused by corrosion, components not achieving predicted reliability and parts obsolescence that adversely result in MC and FMC rate decreases. Improvements to safety of flight, maintenance, obsolescence (Diminishing Manufacturing Sources/Material Shortages), and readiness degrader items will yield a more interoperable and survivable H-1 force to sustain warfighter capability in support of worldwide operations.

FY24 funds utilization:

-Swashplate Improvement: FY24 continues procurement of 60 Swashplate A-Kits and Installations to improve fleet readiness, decrease maintenance hours through reduction of inspection requirements, and reducing total ownership cost by extending the life limit.

-Environmental Control System (ECS) Thermal: FY24 continues procurement of 15 ECS Thermal A-Kits and installations which will ensure APR-39 D(V)2 continuous operation in increased thermal environments and improve aircrew survivability.

-Floorboards Upgrade Kits: FY24 continues procurement of 15 Floorboard A-Kits and installations, which provide access to currently sealed compartments enabling preventative maintenance resulting in improved readiness.

-Drive Plate Improvements: FY24 continues procurement of 40 Drive Plate A-Kits and installations that will improve fleet readiness, reduce maintenance hours through reducing inspection requirements by 50%, and reducing total ownership cost by changing from a consumable to a field repairable part.

-Installation Kits N/R: FY24 includes permanent wiring and infrastructure within the aircraft to enable: Airframe; Gross Weight; Center of Gravity; Fuel; Rotors; Drive; Electrical Power; Combining Gearbox (C-boxes); External Lighting; Flight Control; Aircrew; Environmental Control; and Engine system improvements.

-Rotor Brake Improvement: FY24 continues procurement of 20 Rotor Brake Improvement B-Kits that will address a top fleet readiness degrader by reducing maintenance hours and improving reliability of the Main Rotor Gear Box (MRGB).

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0532 / H-1 Series	Modification Number / Title: 3 / H-1 AIR VEHICLE IMPROVEMENTS (OSIP 013-14)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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-Remote Stores Control Unit (RSCU): FY24 starts the procurement of 15 RSCU B-Kits which increases aircraft ability to fire its full range of weapons, increasing overall survivability and lethality of the aircraft.

-Installation Equipment N/R: SIEPU N/R is an enabling Marine Corps top priority modernization program to maintain H-1 platform relevance. SIEPU N/R effort will validate and verify a modified C-Box design solution, enabling an increase in electrical power margins for future capability improvements.

-Support Equipment: Provides support equipment for production activities migrating over to fleet modification and depot level installs for OSIP 13-14.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: N/A

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Exhibit P-3a, Individual Modification: PB 2024 Navy											Date: March 2023			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0532 / H-1 Series							Modification Number / Title: 3 / H-1 AIR VEHICLE IMPROVEMENTS (OSIP 013-14)			
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:							
Models of Systems Affected: UH-1Y, AH-1Z				Modification Type: Safety/Reliability Improvements				Related RDT&E PEs:						
Financial Plan <small>(*) Indicates the modification is being installed organically and no installation funds are required.</small>	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total		
	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>		
Procurement														
1.1.1) Tail Rotor Drive Shaft (TRDS) Clearance Improvements (UH-1Y/AH-1Z) - Organic ^(*)	- / -	- / -	- / -	- / -	- / -	- / -	3 / 0.429	6 / 0.864	9 / 1.335	9 / 1.375	263 / 41.338	290 / 45.341		
1.1.2) Tail Boom Clamp and Retainer Mod (UH-1Y/AH-1Z) - NonOrganic <i>Installation 1 of 7</i>	83 / 1.130	11 / 0.186	10 / 0.169	5 / 0.091	- / -	5 / 0.091	- / -	- / -	- / -	- / -	- / -	109 / 1.576		
1.1.3) Main Rotor Gear Box (MRGB) Pylon Strap Rivets (UH-1Y) - NonOrganic <i>Installation 2 of 7</i>	60 / 0.018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.001	- / -	- / -	61 / 0.019		
1.1.4) Swashplate Improvements (UH-Y/AH-1Z) - Organic ^(*)	60 / 1.229	52 / 1.109	60 / 1.559	60 / 1.637	- / -	60 / 1.637	58 / 1.662	- / -	- / -	- / -	- / -	290 / 7.196		
1.1.5) Environmental Control System (ECS) Thermal (AH-1Z) - NonOrganic <i>Installation 3 of 7</i>	- / -	11 / 2.728	18 / 4.500	15 / 3.780	- / -	15 / 3.780	20 / 5.080	20 / 5.120	20 / 5.160	20 / 5.316	36 / 9.857	160 / 41.541		
1.1.6) Structural Improvements and Electrical Power Upgrades (UH-1Y/AH-1Z) - NonOrganic <i>Installation 4 of 7</i>	- / -	- / -	- / -	- / -	- / -	- / -	15 / 12.206	22 / 17.910	24 / 20.310	24 / 20.919	205 / 187.864	290 / 259.209		
1.1.7) Floorboards Upgrade Kits (UH-1Y) - NonOrganic <i>Installation 5 of 7</i>	- / -	24 / 0.520	15 / 0.342	15 / 0.359	- / -	15 / 0.359	15 / 0.377	15 / 0.395	15 / 0.407	15 / 0.419	16 / 0.461	130 / 3.280		
1.1.8) Drive Plate Improvements (UH-1Y/AH-1Z) - NonOrganic <i>Installation 6 of 7</i>	- / -	60 / 0.162	40 / 0.113	40 / 0.119	- / -	40 / 0.119	40 / 0.125	40 / 0.131	40 / 0.135	30 / 0.104	- / -	290 / 0.889		
1.1.9) Engine Throttle Stiffness (UH-1Y) - NonOrganic <i>Installation 7 of 7</i>	15 / 0.105	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	115 / 0.839	130 / 0.944		
1.2.1) Installation Kits N/R - Organic ^(*)	- / 24.803	- / 1.484	- / 0.909	- / 1.082	- / -	- / 1.082	- / 0.525	- / -	- / -	- / -	- / -	- / 28.803		
1.2.2) Archived Mods - Organic ^(*)	834 / 12.489	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	834 / 12.489		
2.1.1) Structural Improvements and Electrical Power Upgrades (UH-1Y/AH-1Z) - Organic ^(*)	- / -	- / -	- / -	- / -	- / -	- / -	15 / 2.069	22 / 3.126	24 / 3.512	24 / 3.618	205 / 30.001	290 / 42.326		
2.1.2) Rotor Brake System (UH-1Y/AH-1Z) - Organic ^(*)	- / -	- / -	20 / 3.800	20 / 3.820	- / -	20 / 3.820	21 / 4.032	22 / 4.246	22 / 4.318	22 / 4.447	163 / 31.989	290 / 56.652		
2.1.3) Inverters (UH-1Y) - Organic ^(*)	- / -	260 / 4.328	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	260 / 4.328		
2.1.4) Remote Stores Control Unit (RSCU) (UH-1Y/AH-1Z) - Organic ^(*)	- / -	- / -	- / -	15 / 2.070	- / -	15 / 2.070	22 / 3.127	24 / 3.514	24 / 3.619	24 / 3.728	181 / 29.821	290 / 45.879		
2.2.1) Installation Equipment N/R - Organic ^(*)	- / 59.001	- / 2.733	- / 32.581	- / 17.329	- / -	- / 17.329	- / 16.970	- / 9.039	- / 8.373	- / 7.050	- / -	- / 143.076		
2.2.2) Archived Mods - Organic ^(*)	732 / 72.525	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	732 / 72.525		
Subtotal: Procurement	- / 171.300	- / 13.250	- / 43.973	- / 20.287	- / -	- / 20.287	- / 46.602	- / 44.345	- / 47.170	- / 46.976	- / 332.170	- / 766.073		
Support														
3.2) Data	- / 0.723	- / -	- / -	- / 0.220	- / -	- / 0.220	- / 0.184	- / 0.151	- / 0.152	- / -	- / -	- / 1.430		

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Exhibit P-3a, Individual Modification: PB 2024 Navy										Date: March 2023			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0532 / H-1 Series					Modification Number / Title: 3 / H-1 AIR VEHICLE IMPROVEMENTS (OSIP 013-14)			
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: UH-1Y, AH-1Z			Modification Type: Safety/Reliability Improvements				Related RDT&E PEs:						
Financial Plan <small>(* Indicates the modification is being installed organically and no installation funds are required.)</small>	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total	
	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	
3.4) Support Equipment	- / 1.601	- / 0.903	- / 1.550	- / 1.067	- / -	- / 1.067	- / 0.250	- / -	- / -	- / -	- / -	- / 5.371	
3.5) Integrated Logistics Support (ILS)	- / 8.530	- / 3.254	- / 3.046	- / 2.619	- / -	- / 2.619	- / 2.358	- / 2.086	- / 2.198	- / 2.264	- / 9.847	- / 36.202	
3.6) Other Support	- / 39.461	- / 13.733	- / 13.711	- / 11.323	- / -	- / 11.323	- / 10.866	- / 9.878	- / 9.550	- / 9.846	- / 42.693	- / 161.061	
Subtotal: Support	- / 50.315	- / 17.890	- / 18.307	- / 15.229	- / -	- / 15.229	- / 13.658	- / 12.115	- / 11.900	- / 12.110	- / 52.540	- / 204.064	
Installation													
Installation 1 of 7: Tail Boom Clamp and Retainer Mod (UH-1Y/AH-1Z)	- / 1.086	- / 0.133	- / 0.025	- / 0.012	- / 0.000	- / 0.012	- / -	- / -	- / -	- / -	- / 0.000	- / 1.256	
Installation 2 of 7: Main Rotor Gear Box (MRGB) Pylon Strap Rivets (UH-1Y)	- / 0.531	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.019	- / -	- / 0.000	- / 0.550	
Installation 3 of 7: Environmental Control System (ECS) Thermal (AH-1Z)	- / -	- / 1.980	- / 3.276	- / 2.760	- / 0.000	- / 2.760	- / 3.720	- / 3.760	- / 3.800	- / 3.914	- / 9.024	- / 32.234	
Installation 4 of 7: Structural Improvements and Electrical Power Upgrades (UH-1Y/AH-1Z)	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 8.884	- / 13.349	- / 14.967	- / 141.083	- / 178.283	
Installation 5 of 7: Floorboards Upgrade Kits (UH-1Y)	- / -	- / 1.728	- / 1.114	- / 1.147	- / 0.000	- / 1.147	- / 1.182	- / 1.217	- / 1.254	- / 1.291	- / 1.418	- / 10.351	
Installation 6 of 7: Drive Plate Improvements (UH-1Y/AH-1Z)	- / -	- / 0.237	- / 0.105	- / 0.105	- / 0.000	- / 0.105	- / 0.158	- / 0.176	- / 0.181	- / 0.140	- / 0.000	- / 1.102	
Installation 7 of 7: Engine Throttle Stiffness (UH-1Y)	- / 0.019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.185	- / 2.204	
Subtotal: Installation	- / 1.636	- / 4.078	- / 4.520	- / 4.024	- / -	- / 4.024	- / 5.060	- / 14.037	- / 18.603	- / 20.312	- / 153.710	- / 225.980	
Total													
Total Cost (Procurement + Support + Installation)	223.251	35.218	66.800	39.540	0.000	39.540	65.320	70.497	77.673	79.398	538.420	1,196.117	

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0532 / H-1 Series	Modification Number / Title: 3 / H-1 AIR VEHICLE IMPROVEMENTS (OSIP 013-14)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Installation 1 of 7: Tail Boom Clamp and Retainer Mod (UH-1Y/AH-1Z)

Manufacturer Information

Manufacturer Name: Tail Boom Clamp and Retainer Mod	Manufacturer Location: North Carolina
Administrative Leadtime (in Months): 1	Production Leadtime (in Months): 3

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates	Oct 2021	Oct 2022	Oct 2023				
Delivery Dates	Jan 2022	Jan 2023	Jan 2024				

Installation Information

Method of Implementation: Contractor Field Mod Team:: Installation Name: Tail Boom Clamp and Retainer Mod (UH-1Y/AH-1Z)

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	83 / 1.086	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	83 / 1.086
FY 2022	- / -	11 / 0.133	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	11 / 0.133
FY 2023	- / -	- / -	10 / 0.025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	10 / 0.025
FY 2024	- / -	- / -	- / -	5 / 0.012	0 / 0.000	5 / 0.012	- / -	- / -	- / -	- / -	0 / 0.000	5 / 0.012
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	83 / 1.086	11 / 0.133	10 / 0.025	5 / 0.012	0 / 0.000	5 / 0.012	- / -	- / -	- / -	- / -	0 / 0.000	109 / 1.256

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	83	-	4	4	3	-	5	5	-	-	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Out	83	-	4	4	3	-	5	5	-	-	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0532 / H-1 Series	Modification Number / Title: 3 / H-1 AIR VEHICLE IMPROVEMENTS (OSIP 013-14)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Installation 2 of 7: Main Rotor Gear Box (MRGB) Pylon Strap Rivets (UH-1Y)

Manufacturer Information

Manufacturer Name: Main Rotor Gear Box (MRGB) Pylon Strap Rivets	Manufacturer Location: North Carolina
Administrative Leadtime (in Months): 1	Production Leadtime (in Months): 6

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates						Oct 2026	
Delivery Dates						Apr 2027	

Installation Information

Method of Implementation: Depot Field Modification Team:: Installation Name: Main Rotor Gear Box (MRGB) Pylon Strap Rivets (UH

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	60 / 0.531	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	60 / 0.531
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.019	- / -	0 / 0.000	1 / 0.019
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	60 / 0.531	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.019	- / -	0 / 0.000	61 / 0.550

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot	
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4			
In	60	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	61
Out	60	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	61

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0532 / H-1 Series	Modification Number / Title: 3 / H-1 AIR VEHICLE IMPROVEMENTS (OSIP 013-14)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Installation 3 of 7: Environmental Control System (ECS) Thermal (AH-1Z)

Manufacturer Information

Manufacturer Name: Environmental Control System (ECS) Thermal	Manufacturer Location: North Carolina
Administrative Leadtime (in Months): 7	Production Leadtime (in Months): 2

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates	Apr 2022	Apr 2023	Apr 2024	Apr 2025	Apr 2026	Apr 2027	Apr 2028
Delivery Dates	Jun 2022	Jun 2023	Jun 2024	Jun 2025	Jun 2026	Jun 2027	Jun 2028

Installation Information

Method of Implementation: Depot Field Modification Team:: Installation Name: Environmental Control System (ECS) Thermal (AH-1Z)

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	11 / 1.980	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	11 / 1.980
FY 2023	- / -	- / -	18 / 3.276	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	18 / 3.276
FY 2024	- / -	- / -	- / -	15 / 2.760	0 / 0.000	15 / 2.760	- / -	- / -	- / -	- / -	0 / 0.000	15 / 2.760
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	20 / 3.720	- / -	- / -	- / -	0 / 0.000	20 / 3.720
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	20 / 3.760	- / -	- / -	0 / 0.000	20 / 3.760
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	20 / 3.800	- / -	0 / 0.000	20 / 3.800
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	20 / 3.914	0 / 0.000	20 / 3.914
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	36 / 9.024	36 / 9.024
Total	- / -	11 / 1.980	18 / 3.276	15 / 2.760	0 / 0.000	15 / 2.760	20 / 3.720	20 / 3.760	20 / 3.800	20 / 3.914	36 / 9.024	160 / 32.234

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	5	6	-	-	9	9	-	-	8	7	-	-	10	10	-	-	10	10	-	-	10	10	-	-	10	10	36	160
Out	-	-	-	-	5	6	-	-	9	9	-	-	8	7	-	-	10	10	-	-	10	10	-	-	10	10	-	-	10	46	160

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0532 / H-1 Series	Modification Number / Title: 3 / H-1 AIR VEHICLE IMPROVEMENTS (OSIP 013-14)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Installation 4 of 7: Structural Improvements and Electrical Power Upgrades (UH-1Y/AH-1Z)

Manufacturer Information

Manufacturer Name: Structural Improvements and Electrical Power Upgrade	Manufacturer Location: TBD
Administrative Leadtime (in Months): 2	Production Leadtime (in Months): 12

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates				Nov 2024	Nov 2025	Nov 2026	Nov 2027
Delivery Dates				Nov 2025	Nov 2026	Nov 2027	Nov 2028

Installation Information

Method of Implementation: Contractor Field Mod Team (CFMT):: Installation Name: Structural Improvements and Electrical Power U

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	15 / 8.884	- / -	- / -	0 / 0.000	15 / 8.884
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	22 / 13.349	- / -	0 / 0.000	22 / 13.349
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	24 / 14.967	0 / 0.000	24 / 14.967
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	24 / 16.571	24 / 16.571
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	205 / 124.512	205 / 124.512
Total	- / -	- / -	- / -	- / -	- / -	- / -	- / -	15 / 8.884	22 / 13.349	24 / 14.967	229 / 141.083	290 / 178.283

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8	7	-	-	9	9	4	-	9	9	6	-	229	290
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8	7	-	-	9	9	4	-	9	9	6	229	290

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0532 / H-1 Series	Modification Number / Title: 3 / H-1 AIR VEHICLE IMPROVEMENTS (OSIP 013-14)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Installation 5 of 7: Floorboards Upgrade Kits (UH-1Y)

Manufacturer Information

Manufacturer Name: Floorboards Upgrades	Manufacturer Location: TBD
Administrative Leadtime (in Months): 3	Production Leadtime (in Months): 5

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates	Dec 2021	Dec 2022	Dec 2023	Dec 2024	Dec 2025	Dec 2026	Dec 2027
Delivery Dates	May 2022	May 2023	May 2024	May 2025	May 2026	May 2027	May 2028

Installation Information

Method of Implementation: Contractor Field Mod Team (CFMT):: Installation Name: Floorboards Upgrade Kits (UH-1Y)

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	24 / 1.728	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	24 / 1.728
FY 2023	- / -	- / -	15 / 1.114	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	15 / 1.114
FY 2024	- / -	- / -	- / -	15 / 1.147	0 / 0.000	15 / 1.147	- / -	- / -	- / -	- / -	0 / 0.000	15 / 1.147
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	15 / 1.182	- / -	- / -	- / -	0 / 0.000	15 / 1.182
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	15 / 1.217	- / -	- / -	0 / 0.000	15 / 1.217
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	15 / 1.254	- / -	0 / 0.000	15 / 1.254
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	15 / 1.291	0 / 0.000	15 / 1.291
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	16 / 1.418	16 / 1.418
Total	- / -	24 / 1.728	15 / 1.114	15 / 1.147	0 / 0.000	15 / 1.147	15 / 1.182	15 / 1.217	15 / 1.254	15 / 1.291	16 / 1.418	130 / 10.351

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	12	12	-	-	8	7	-	-	8	7	-	-	8	7	-	-	8	7	-	-	8	7	-	-	8	7	16	130
Out	-	-	-	-	12	12	-	-	8	7	-	-	8	7	-	-	8	7	-	-	8	7	-	-	8	7	-	-	8	23	130

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0532 / H-1 Series	Modification Number / Title: 3 / H-1 AIR VEHICLE IMPROVEMENTS (OSIP 013-14)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Installation 6 of 7: Drive Plate Improvements (UH-1Y/AH-1Z)

Manufacturer Information

Manufacturer Name: Drive Plate Improvements	Manufacturer Location: North Carolina
Administrative Leadtime (in Months): 3	Production Leadtime (in Months): 1

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates	Dec 2021	Dec 2022	Dec 2023	Dec 2024	Dec 2025	Dec 2026	Dec 2027
Delivery Dates	Jan 2022	Jan 2023	Jan 2024	Jan 2025	Jan 2026	Jan 2027	Jan 2028

Installation Information

Method of Implementation: Depot Field Mod Team:: Installation Name: Drive Plate Improvements (UH-1Y/AH-1Z)

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	60 / 0.237	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	60 / 0.237
FY 2023	- / -	- / -	40 / 0.105	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	40 / 0.105
FY 2024	- / -	- / -	- / -	40 / 0.105	0 / 0.000	40 / 0.105	- / -	- / -	- / -	- / -	0 / 0.000	40 / 0.105
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	40 / 0.158	- / -	- / -	- / -	0 / 0.000	40 / 0.158
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	40 / 0.176	- / -	- / -	0 / 0.000	40 / 0.176
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	40 / 0.181	- / -	0 / 0.000	40 / 0.181
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	30 / 0.140	0 / 0.000	30 / 0.140
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	60 / 0.237	40 / 0.105	40 / 0.105	0 / 0.000	40 / 0.105	40 / 0.158	40 / 0.176	40 / 0.181	30 / 0.140	0 / 0.000	290 / 1.102

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	20	20	20	-	20	10	10	-	20	10	10	-	20	10	10	-	20	10	10	-	20	10	10	-	20	10	-	-	290
Out	-	-	-	20	20	20	-	20	10	10	-	20	10	10	-	20	10	10	-	20	10	10	-	20	10	10	-	20	10	-	290

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0532 / H-1 Series	Modification Number / Title: 3 / H-1 AIR VEHICLE IMPROVEMENTS (OSIP 013-14)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Installation 7 of 7: Engine Throttle Stiffness (UH-1Y)

Manufacturer Information

Manufacturer Name: Engine Throttle Stiffness	Manufacturer Location: North Carolina
Administrative Leadtime (in Months): 2	Production Leadtime (in Months): 2

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates							
Delivery Dates							

Installation Information

Method of Implementation: Depot Field Mod Team:: Installation Name: Engine Throttle Stiffness (UH-1Y)

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	15 / 0.019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	15 / 0.019
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	115 / 2.185	115 / 2.185
Total	15 / 0.019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	115 / 2.185	130 / 2.204

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	115	130
Out	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	115	130

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy	Date: March 2023
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Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0532 / H-1 Series	Modification Number / Title: 4 / INACTIVE OSIPS
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ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	294.279	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	294.279
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	294.279	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	294.279
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	294.279	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	294.279

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Inactive OSIPs prior year totals.

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy										Date: March 2023		
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0532 / H-1 Series						Modification Number / Title: 4 / INACTIVE OSIPS		
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:					
Models of Systems Affected: [No Model Specified]				Modification Type: TBD				Related RDT&E PEs:				
Financial Plan <small>(*) Indicates the modification is being installed organically and no installation funds are required.</small>	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>
Procurement												
1.1.1) Inactive OSIPs - Organic ^(*)	- / 285.029	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 285.029
1.1.2) FY20 Enacted Rescissions - Organic ^(*)	- / 9.250	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 9.250
Subtotal: Procurement	- / 294.279	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 294.279
Installation												
Subtotal: Installation	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total												
Total Cost (Procurement + Support + Installation)	294.279	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	294.279

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Exhibit P-40, Budget Line Item Justification: PB 2024 Navy **Date:** March 2023

Appropriation / Budget Activity / Budget Sub Activity: 1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft	P-1 Line Item Number / Title: 0537 / EP-3 Series
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	1,399.319	28.848	8.492	8.548	0.000	8.548	0.000	0.000	0.000	0.000	-	1,445.207
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	1,399.319	28.848	8.492	8.548	0.000	8.548	0.000	0.000	0.000	0.000	-	1,445.207
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	1,399.319	28.848	8.492	8.548	0.000	8.548	0.000	0.000	0.000	0.000	-	1,445.207

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

This line item funds modifications to the EP-3E aircraft. The EP-3E is a land based, long range aircraft with electronic intercept devices for detection and tracking of enemy Radio Detection and Ranging and communications.

In Operational, Safety and Improvement Program (OSIP) 11-01, the Joint Airborne Signal Intelligence Architecture Modification Common Configuration (JCC) obsolescence Engineering Change Orders (ECO) improves operational capability and aircrew productivity by updating the Electronic Support Measures systems, applying state-of-the-art signal exploitation/processing/display techniques, off-board classified communication, and expanding special signal processing capability while meeting cybersecurity, crypto, and emerging requirement upgrades. The EP-3E Series budget provides continued support of EP-3E operations as a result of schedule pressure on development, production and IOC for the MQ-4C Triton IFC-4. Based on NDAA 2011, the US Navy is required to maintain the EP-3E platform until a suitable replacement (in both capability and capacity) is fielded. As a result, the Navy authorized a three-year extension of the EP-3E through FY 2024 with sundown to complete mid-FY 2025. FY 2024 JCC Obsolescence funds address the EP-3E mission viability, mission systems obsolescence, improves cybersecurity posture, National Security Agency mandates, and Signals Intelligence (SIGINT) modifications required to address emerging threats in a dynamic electronic warfare environment (aka "pacing the threat") and responds to the current, immediate demand for information operations capabilities on the EP-3E.

Active Primary Aircraft Authorization inventory is 11. Funds budgeted in FY 2022-FY 2024 are to continue EP-3E mission viability, address mission systems obsolescence issues and cybersecurity posture, and pace the threat to remain compliant with FY11 National Defense Authorization Act (NDAA) guidance. The EP-3E airframe has an average age of 49 years.

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Exhibit P-40, Budget Line Item Justification: PB 2024 Navy **Date:** March 2023

Appropriation / Budget Activity / Budget Sub Activity:
1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft

P-1 Line Item Number / Title:
0537 / EP-3 Series

ID Code (A=Service Ready, B=Not Service Ready): A **Program Elements for Code B Items:** N/A **Other Related Program Elements:** N/A

Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	1 / JSAF Modification (JMOD) - OSIP 11-01 (Operational Improvement / Modernization)				- / 794.340	- / 28.848	- / 8.492	- / 8.548	- / 0.000	- / 8.548
P-3a	2 / Inactive OSIPS (Operational Improvement / Modernization)				- / 604.979	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000
P-40	Total Gross/Weapon System Cost				- / 1,399.319	- / 28.848	- / 8.492	- / 8.548	- / 0.000	- / 8.548

Exhibits Schedule					FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	1 / JSAF Modification (JMOD) - OSIP 11-01 (Operational Improvement / Modernization)				- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 840.228
P-3a	2 / Inactive OSIPS (Operational Improvement / Modernization)				- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 604.979
P-40	Total Gross/Weapon System Cost				- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / -	- / 1,445.207

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

Justification:
FY 2024 funding request incorporates modifications that address obsolescence issues, improves cyber protection posture, and maintains compliance with National Security Agency (NSA) mandates.

OOC:
FY 2022 includes \$11.694M in OOC execution.
FY 2023 includes \$5.823M in OOC enacted budget.
FY 2024 includes \$3.931M for the OOC budget request.

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0537 / EP-3 Series	Modification Number / Title: 1 / JSAF Modification (JMOD) - OSIP 11-01

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	794.340	28.848	8.492	8.548	0.000	8.548	0.000	0.000	0.000	0.000	0.000	840.228
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	794.340	28.848	8.492	8.548	0.000	8.548	0.000	0.000	0.000	0.000	0.000	840.228
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	794.340	28.848	8.492	8.548	0.000	8.548	0.000	0.000	0.000	0.000	0.000	840.228

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

This Operational, Safety and Improvement Program (OSIP) responds to Operational Requirements Document (ORD) #571-78-01 and the CAPSTONE ORD #CAF-002-88. JCC was designed as an evolutionary acquisition program consisting of spiral upgrades. Current JCC baseline requires incorporation of Engineering Change Proposals (ECPs) to procure Quick Reaction Capability mission systems, allowing the EP-3E the flexibility to react in real-time against current and new emerging threats with the most sophisticated equipment available. This flexibility allows upgrades to current aircraft and training systems, support equipment, data and logistics support, aircraft testing, and modernization of computer/software-based applications and crypto systems to support critical missions deemed vital to our national security.

QRC funds address mission avionics system obsolescence and emerging requirements. This OSIP includes JCC Obsolescence funding to replace subsystem obsolescence, maintain compliance with cyber and crypto system mandates, and emerging requirement upgrades to ensure EP-3E viability until aircraft recapitalization.

The EP-3E Series budget provides continued support of EP-3E operations as a result of schedule pressure on development, production and IOC for the MQ-4C Triton IFC-4. Based on NDAA 2011, the US Navy is required to maintain the EP-3E platform until a suitable replacement (in both capability and capacity) is fielded. As a result, the Navy authorized a three-year extension of the EP-3E through FY24 with sundown to complete mid FY25. FY 2024 JCC Obsolescence funds address the EP-3E mission viability, mission systems obsolescence, improves cybersecurity posture, National Security Agency mandates, and Signals Intelligence (SIGINT) modifications required to address emerging threats in a dynamic electronic warfare environment (aka "pacing the threat") and responds to the current, immediate demand for information operations capabilities.

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES:

JCC Spiral 3 LRIP decision was approved on 25 February 2011

NOTES:

- 1) Other Support in FY2024 includes Navy Test.
- 2) Install Schedule in FY2024 based on Projected Aircraft Availability.
- 3) FY2024 obsolescence quantities include various mission equipment quantities. Quantities cannot be defined due to unknown obsolescence issues.
- 4) FY2024 NRE, ECO, Data, Training Equipment and Support Equipment supports EP-3E Obsolescence issues and emerging requirement upgrades.

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Exhibit P-3a, Individual Modification: PB 2024 Navy											Date: March 2023			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0537 / EP-3 Series							Modification Number / Title: 1 / JSAF Modification (JMOD) - OSIP 11-01			
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:							
Models of Systems Affected: EP-3E				Modification Type: Operational Improvement / Modernization				Related RDT&E PEs: 0305206N						
Financial Plan	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total		
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)		
Procurement														
Modification Item 1 of 2: Kits														
A Kits														
Recurring														
1.1.1) Prior Year Archive - Organic	12 / 47.751	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	12 / 47.751		
Subtotal: Recurring	- / 47.751	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 47.751		
Non-Recurring														
1.2.1) Installation Kits N/R - Organic	- / 24.465	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 24.465		
Subtotal: Non-Recurring	- / 24.465	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 24.465		
B Kits														
Recurring														
2.1.1) Prior Year Archive - Organic	9 / 178.808	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	9 / 178.808		
Subtotal: Recurring	- / 178.808	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 178.808		
Non-Recurring														
2.2.1) Installation Equipment N/R - Organic	- / 45.191	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 45.191		
Subtotal: Non-Recurring	- / 45.191	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 45.191		
Subtotal: Kits	21 / 296.215	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	21 / 296.215		
Modification Item 2 of 2: Support														
A Kits														
Recurring														
3.1.1) JCC Obsolescence - NonOrganic ⁽¹⁾	- / 223.317	- / 20.886	- / 6.051	- / 6.085	- / -	- / 6.085	- / -	- / -	- / -	- / -	- / -	- / 256.339		
Subtotal: Recurring	- / 223.317	- / 20.886	- / 6.051	- / 6.085	- / -	- / 6.085	- / -	- / -	- / -	- / -	- / 0.000	- / 256.339		
Subtotal: Support	- / 223.317	- / 20.886	- / 6.051	- / 6.085	- / -	- / 6.085	- / -	- / -	- / -	- / -	- / -	- / 256.339		
Subtotal: Procurement, All Modification Items	- / 519.532	- / 20.886	- / 6.051	- / 6.085	- / -	- / 6.085	- / -	- / -	- / -	- / -	- / 0.000	- / 552.554		
Support (All Modification Items)														
4.2) QRC	- / 7.124	- / 0.909	- / 0.279	- / 0.277	- / -	- / 0.277	- / -	- / -	- / -	- / -	- / -	- / 8.589		
4.3) Data	- / 16.453	- / 0.717	- / 0.111	- / 0.109	- / -	- / 0.109	- / -	- / -	- / -	- / -	- / -	- / 17.390		
4.4) Training Equipment	- / 19.526	- / 0.988	- / 0.184	- / 0.182	- / -	- / 0.182	- / -	- / -	- / -	- / -	- / -	- / 20.880		
4.5) Support Equipment	- / 19.590	- / 0.888	- / 0.272	- / 0.273	- / -	- / 0.273	- / -	- / -	- / -	- / -	- / -	- / 21.023		

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0537 / EP-3 Series	Modification Number / Title: 1 / JSAF Modification (JMOD) - OSIP 11-01

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Models of Systems Affected: EP-3E	Modification Type: Operational Improvement / Modernization	Related RDT&E PEs: 0305206N
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Financial Plan	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
4.6) ILS	- / 35.330	- / 0.640	- / 0.409	- / 0.414	- / -	- / 0.414	- / -	- / -	- / -	- / -	- / -	- / 36.793
4.7) Other Support	- / 115.288	- / 1.820	- / 0.572	- / 0.583	- / -	- / 0.583	- / -	- / -	- / -	- / -	- / -	- / 118.263
<i>Subtotal: Support</i>	- / 213.311	- / 5.962	- / 1.827	- / 1.838	- / -	- / 1.838	- / -	- / -	- / -	- / -	- / 0.000	- / 222.938
Installation												
<i>Modification Item 2 of 2: Support</i>	- / 61.497	- / 2.000	- / 0.614	- / 0.625	- / 0.000	- / 0.625	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 64.736
<i>Subtotal: Installation</i>	- / 61.497	- / 2.000	- / 0.614	- / 0.625	- / -	- / 0.625	- / -	- / -	- / -	- / -	- / 0.000	- / 64.736
Total												
Total Cost (Procurement + Support + Installation)	794.340	28.848	8.492	8.548	0.000	8.548	0.000	0.000	0.000	0.000	0.000	840.228

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0537 / EP-3 Series	Modification Number / Title: 1 / JSAF Modification (JMOD) - OSIP 11-01
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:
Modification Item 1 of 2: Kits		

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0537 / EP-3 Series	Modification Number / Title: 1 / JSAF Modification (JMOD) - OSIP 11-01

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Modification Item 2 of 2: Support

Manufacturer Information

Manufacturer Name: TBD - Obsolescence ECP's ⁽²⁾	Manufacturer Location: TBD
Administrative Leadtime (in Months): 2	Production Leadtime (in Months): 2

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates	Dec 2021	Dec 2022	Dec 2023				
Delivery Dates	Feb 2022	Feb 2023	Feb 2024				

Installation Information

Method of Implementation: Navy Field Mod Team:: Installation Name: JCC Obsolescence

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	0 / 61.497	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	- / 61.497
FY 2022	- / -	0 / 2.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	- / 2.000
FY 2023	- / -	- / -	0 / 0.614	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	- / 0.614
FY 2024	- / -	- / -	- / -	0 / 0.625	0 / 0.000	0 / 0.625	- / -	- / -	- / -	- / -	0 / 0.000	- / 0.625
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	0 / 61.497	0 / 2.000	0 / 0.614	0 / 0.625	0 / 0.000	0 / 0.625	- / -	- / -	- / -	- / -	0 / 0.000	- / 64.736

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0		
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0		

Footnotes:
⁽¹⁾ Technical and Schedule pressure on development, production and IOC for MQ-4C Triton IFC-4 has required extension of operational service for EP-3E. Extension planned for an additional 3 years (through FY 2024) to ensure compliance with FY 2011 NDA. FY 2024 JCC Obsolescence funds address EP-3E mission viability, mission systems obsolescence, improves cybersecurity posture, National Security Agency (NSA) mandates, and pacing the threat.

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0537 / EP-3 Series	Modification Number / Title: 1 / JSAF Modification (JMOD) - OSIP 11-01
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:

⁽²⁾ OBS quantities include various mission equipment quantities.

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Exhibit P-3a, Individual Modification: PB 2024 Navy	Date: March 2023
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Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0537 / EP-3 Series	Modification Number / Title: 2 / Inactive OSIPS
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ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	604.979	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	604.979
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) <i>(\$ in Millions)</i>	604.979	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	604.979
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	604.979	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	604.979

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Dollars)</i>	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Inactive OSIPs prior year totals.

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0537 / EP-3 Series	Modification Number / Title: 2 / Inactive OSIPS

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Models of Systems Affected: EP-3E	Modification Type: Operational Improvement / Modernization	Related RDT&E PEs: 0305206N
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Financial Plan <small>(*) Indicates the modification is being installed organically and no installation funds are required.</small>	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>
Procurement												
1.2.1 Inactive OSIPS - Organic ^(*)	- / 604.979	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 604.979
Subtotal: Procurement	- / 604.979	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 604.979
Installation												
Subtotal: Installation	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total												
Total Cost (Procurement + Support + Installation)	604.979	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	604.979

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2024 Navy **Date:** March 2023

Appropriation / Budget Activity / Budget Sub Activity: 1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft	P-1 Line Item Number / Title: 0544 / E-2 Series
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: 000

Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	1,928.652	199.869	188.897	183.246	0.000	183.246	186.747	139.272	89.821	188.458	1,527.305	4,632.267
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	1,928.652	199.869	188.897	183.246	0.000	183.246	186.747	139.272	89.821	188.458	1,527.305	4,632.267
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	1,928.652	199.869	188.897	183.246	0.000	183.246	186.747	139.272	89.821	188.458	1,527.305	4,632.267

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

This line item funds modifications to the E-2 aircraft. The E-2 is an all-weather, carrier based, airborne early warning, command and control aircraft that extends task force defense perimeters by providing early warning of approaching enemy units and by vectoring interceptors into attack position. Additionally, the HAWKEYE provides strike control, radar surveillance, search and rescue assistance, communications relay and automatic tactical data exchange. As the result of technological advancements, the Commercial-Off-The-Shelf (COTS) hardware/software of the Mission Computer will change or become obsolete in the very near future.

-E-2 Embedded National Tactical Receiver (ENTR) OSIP (08-17): Provides the E-2 with the capability to receive intelligence data from national assets for real-time, emergent threat or CID data, compressing tactical engagement timeline for Naval Integrated Fire Control (NIFC) kill chains.

-Structural Enhancements OSIP (12-17): Enables the aircraft's full service life and removes vehicle performance envelope restrictions. This will mitigate the potential for aircraft grounding due to previously unmitigated structural issues.

-E-2D Aerial Refueling (AR) OSIP (02-18): Allows the E-2 to receive fuel from various organic and non-organic tanker aircraft. It will provide Expanded Battle Space Surveillance and Targeting through significantly enhanced persistence and increased flexibility (range & endurance).

-E-2 Secret Internet Protocol Router Chat (SIPR CHAT) OSIP (03-18): Supports the integration of current collaboration tools including tactical "chat" (text) communications, real-time tasking, and Air Tasking Order distribution. Recent real world operations have demonstrated a migration of Command and Control communications from voice to Internet protocol based networks.

-Navigational Warfare (NAVWAR) OSIP (11-19): Allows the E-2D Advanced Hawkeye (AHE) to operate in areas where signal disruption would prohibit unprotected GPS reception. The E-2D AHE will be able to provide continuous operations in a degraded GPS environment for mission areas that depend on GPS for precise position, navigation, and timing. Also, provides Naval platforms improved access to GPS signals in challenged and jamming environments. Modernizes GPS receivers to utilize the new M-Code GPS Signal in Space, incorporate enhanced cryptology, deliver greater position and time accuracy, provide improved protection against signal spoofing as compared to legacy Selective Anti-Jam Anti-Spoof Module (SAASM) receivers and replace an obsolescence issue.

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Exhibit P-40, Budget Line Item Justification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft		P-1 Line Item Number / Title: 0544 / E-2 Series
ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
Line Item MDAP/MAIS Code: 000		
<p>-Advanced Radar Processor (ARP) OSIP (03-20): Essential upgrade to the E-2D APY-9 Radar system that improves the radar processing capability six fold, reduces production costs, addresses obsolescence, reduces future support costs and enables future growth by reducing the number of Subsystem Replaceable Assembly's in the processors. ARP is required to support the transition of current Science & Technology investments in NIFC Increment 3, Counter Electronic Attack and Sensor Netting.</p> <p>-E-2 Technology Upgrades (16-20): Ensures fleet configuration management and addresses deficiencies and obsolescence of Mission Systems hardware, software and firmware components. This OSIP will execute a strategic, comprehensive plan to mitigate component level end of production and end of support due to deficiencies and obsolescence on all E-2 aircraft and trainers.</p> <p>-Datalinks (18-20): Addresses Crypto Modernization (CM) upgrades and Frequency Remapping (FR) capabilities. This OSIP will field the LINK 16 CM/FM capability into the E-2 Series aircraft. Funding will also be used to integrate and field Multifunctional Information Distribution System (MIDS) Joint Tactical Radio System (JTRS) Tactical Targeting Network Technology (TTNT) wave form.</p> <p>-Electronic Support Measures OSIP (07-21): Digital upgrade greatly enhances CID, battle space awareness, and effectiveness of blue forces. Combat Identification (#3) requirements and Electronic Protection (#4) are specifically called out on COMACCLOGWING's FY19 E-2D Naval Aviation Requirements Group (NARG) Message and Electronic Warfare is directly identified in US Fleet Forces POM-21 Integrated Priority List submission.</p> <p>There are currently 21 E-2Cs in the Fleet inventory and 80 E-2Ds delivered or on contract, a total of 101 aircraft. As E-2Cs retire, they are replaced with E-2Ds. The E-2 has a service life of 10,000 flight hours.</p>		

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Exhibit P-40, Budget Line Item Justification: PB 2024 Navy **Date:** March 2023

Appropriation / Budget Activity / Budget Sub Activity:
1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft

P-1 Line Item Number / Title:
0544 / E-2 Series

ID Code (A=Service Ready, B=Not Service Ready): A **Program Elements for Code B Items:** N/A **Other Related Program Elements:** N/A

Line Item MDAP/MAIS Code: 000

Exhibits Schedule					Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	1 / 008-17 E-2 ENTR (Missions Performance Enhancements)				- / 14.451	- / 5.041	- / 4.385	- / 3.025	- / 0.000	- / 3.025
P-3a	2 / 012-17 Structural Enhancements (Safety/Reliability Improvement)				- / 44.762	- / 11.454	- / 15.739	- / 19.516	- / 0.000	- / 19.516
P-3a	3 / 002-18 E-2D Aerial Refueling (Mission Performance Enhancements)				- / 138.847	- / 37.705	- / 37.757	- / 38.478	- / 0.000	- / 38.478
P-3a	4 / 003-18 E-2 SIPR CHAT (Mission Performance Enhancements)				- / 36.594	- / 26.833	- / 28.110	- / 15.724	- / 0.000	- / 15.724
P-3a	5 / 011-19 Navigational Warfare (NAVWAR) (Mission Performance Enhancements)				- / 6.401	- / 8.474	- / 12.816	- / 5.031	- / 0.000	- / 5.031
P-3a	6 / 003-20 Advanced Radar Processor (Mission Performance Enhancement)				- / 69.385	- / 32.926	- / 4.344	- / 2.797	- / 0.000	- / 2.797
P-3a	7 / 016-20 Technology Upgrades (Mission Performance Enhancement)				- / 10.520	- / 7.134	- / 33.395	- / 39.212	- / 0.000	- / 39.212
P-3a	8 / 018-20 Datalinks (Mission Performance Enhancements)				- / 66.481	- / 35.636	- / 23.340	- / 22.369	- / 0.000	- / 22.369
P-3a	9 / 007-21 Electronic Support Measures (Mission Performance Enhancement)				- / 4.363	- / 34.666	- / 29.011	- / 37.094	- / 0.000	- / 37.094
P-3a	10 / Inactive OSIPs (TBD)				- / 1,536.848	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000
P-40	Total Gross/Weapon System Cost				- / 1,928.652	- / 199.869	- / 188.897	- / 183.246	- / 0.000	- / 183.246

Exhibits Schedule					FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	1 / 008-17 E-2 ENTR (Missions Performance Enhancements)				- / 0.864	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 27.766
P-3a	2 / 012-17 Structural Enhancements (Safety/Reliability Improvement)				- / 23.012	- / 18.410	- / 12.094	- / 10.713	- / 105.285	- / 260.985
P-3a	3 / 002-18 E-2D Aerial Refueling (Mission Performance Enhancements)				- / 39.216	- / 28.084	- / 0.000	- / 0.000	- / 0.000	- / 320.087
P-3a	4 / 003-18 E-2 SIPR CHAT (Mission Performance Enhancements)				- / 12.940	- / 2.218	- / 0.000	- / 0.000	- / 0.000	- / 122.419
P-3a	5 / 011-19 Navigational Warfare (NAVWAR) (Mission Performance Enhancements)				- / 1.924	- / 0.539	- / 0.000	- / 0.000	- / 0.000	- / 35.185
P-3a	6 / 003-20 Advanced Radar Processor (Mission Performance Enhancement)				- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 109.452
P-3a	7 / 016-20 Technology Upgrades (Mission Performance Enhancement)				- / 49.356	- / 50.147	- / 54.727	- / 176.495	- / 1,422.020	- / 1,843.006
P-3a	8 / 018-20 Datalinks (Mission Performance Enhancements)				- / 25.903	- / 7.374	- / 0.000	- / 0.000	- / 0.000	- / 181.103
P-3a	9 / 007-21 Electronic Support Measures (Mission Performance Enhancement)				- / 33.532	- / 32.500	- / 23.000	- / 1.250	- / 0.000	- / 195.416
P-3a	10 / Inactive OSIPs (TBD)				- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 1,536.848
P-40	Total Gross/Weapon System Cost				- / 186.747	- / 139.272	- / 89.821	- / 188.458	- / 1,527.305	- / 4,632.267

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

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Exhibit P-40, Budget Line Item Justification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft		P-1 Line Item Number / Title: 0544 / E-2 Series
ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
Line Item MDAP/MAIS Code: 000		

Justification:
Basis for FY 2024 request is to procure modification kits to support ENTR, AR, SIPRCHAT, NAVWAR, ARP, MIDS/JTRS TTNT, Crypto Mod, ESM, various Structural Enhancement and various Tech Upgrade ECP's. FY 2024 request also funds installation and program support costs associated with those efforts.

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0544 / E-2 Series	Modification Number / Title: 1 / 008-17 E-2 ENTR

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	14.451	5.041	4.385	3.025	0.000	3.025	0.864	0.000	0.000	0.000	0.000	27.766
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	14.451	5.041	4.385	3.025	0.000	3.025	0.864	0.000	0.000	0.000	0.000	27.766
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	14.451	5.041	4.385	3.025	0.000	3.025	0.864	0.000	0.000	0.000	0.000	27.766

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Integrating the Embedded National Tactical Receiver (ENTR) provides the E-2D capability to receive Integrated Broadcast Service intelligence data from national assets for real-time, emergent threat or Combat ID data, compressing tactical engagement timeline for both Naval Integrated Fire Control kill chains. Due to obsolescence of legacy MATT receiver, it was not included in the E-2D baseline configuration. This capability is an E-2 baseline Capability Design Document threshold requirement and supports gap identified at Fleet Forces Command wargaming workshop.

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Exhibit P-3a, Individual Modification: PB 2024 Navy										Date: March 2023				
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0544 / E-2 Series					Modification Number / Title: 1 / 008-17 E-2 ENTR				
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:							
Models of Systems Affected: E-2				Modification Type: Missions Performance Enhancements				Related RDT&E PEs:						
Financial Plan <small>(*) Indicates the modification is being installed organically and no installation funds are required.</small>	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total		
	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>		
Procurement														
1.1.1) E-2D ENTR A-Kit - NonOrganic ⁽¹⁾ <i>Installation 1 of 1</i>	20 / 7.918	10 / 2.706	9 / 2.482	5 / 1.405	- / -	5 / 1.405	- / -	- / -	- / -	- / -	- / -	44 / 14.511		
2.1.1) E-2D ENTR B-Kit - Organic ⁽¹⁾	20 / 0.707	10 / 0.363	9 / 0.333	5 / 0.189	- / -	5 / 0.189	- / -	- / -	- / -	- / -	- / -	44 / 1.592		
<i>Subtotal: Procurement</i>	- / 8.625	- / 3.069	- / 2.815	- / 1.594	- / -	- / 1.594	- / -	- / -	- / -	- / -	- / 0.000	- / 16.103		
Support														
3.1) Data	- / 0.043	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.043		
3.2) ILS	- / 0.267	- / -	- / 0.032	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.299		
3.3) Training Equipment	- / 3.346	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 3.346		
3.4) Support Equipment	- / 0.059	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.059		
3.5) Other Support	- / 0.848	- / 0.685	- / 0.227	- / 0.229	- / -	- / 0.229	- / 0.183	- / -	- / -	- / -	- / -	- / 2.172		
<i>Subtotal: Support</i>	- / 4.563	- / 0.685	- / 0.259	- / 0.229	- / -	- / 0.229	- / 0.183	- / -	- / -	- / -	- / 0.000	- / 5.919		
Installation														
<i>Installation 1 of 1:</i> E-2D ENTR A-Kit	- / 1.263	- / 1.287	- / 1.311	- / 1.202	- / 0.000	- / 1.202	- / 0.681	- / -	- / -	- / -	- / 0.000	- / 5.744		
<i>Subtotal: Installation</i>	- / 1.263	- / 1.287	- / 1.311	- / 1.202	- / -	- / 1.202	- / 0.681	- / -	- / -	- / -	- / 0.000	- / 5.744		
Total														
Total Cost (Procurement + Support + Installation)	14.451	5.041	4.385	3.025	0.000	3.025	0.864	0.000	0.000	0.000	0.000	27.766		

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0544 / E-2 Series	Modification Number / Title: 1 / 008-17 E-2 ENTR

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Installation 1 of 1: E-2D ENTR A-Kit

Manufacturer Information

Manufacturer Name: E-2 ENTR	Manufacturer Location: Field Mod Team
Administrative Leadtime (in Months): 6	Production Leadtime (in Months): 9

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates	Mar 2022	Mar 2023	Mar 2024				
Delivery Dates	Dec 2022	Dec 2023	Dec 2024				

Installation Information

Method of Implementation: Field Mod Team:: Installation Name: E-2D ENTR A-Kit

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	10 / 1.263	10 / 1.287	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	20 / 2.550
FY 2022	- / -	- / -	10 / 1.311	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	10 / 1.311
FY 2023	- / -	- / -	- / -	9 / 1.202	0 / 0.000	9 / 1.202	- / -	- / -	- / -	- / -	0 / 0.000	9 / 1.202
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	5 / 0.681	- / -	- / -	- / -	0 / 0.000	5 / 0.681
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	10 / 1.263	10 / 1.287	10 / 1.311	9 / 1.202	0 / 0.000	9 / 1.202	5 / 0.681	- / -	- / -	- / -	0 / 0.000	44 / 5.744

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot				
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4						
In	8	2	2	3	3	2	2	3	3	2	2	2	3	2	2	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Out	8	2	2	3	3	2	2	3	3	2	2	2	3	2	2	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Footnotes:
 (1) ENTR A-Kit unit cost updated to reflect unit cost as per approved Engineering Change Proposal (ECP NGC-E2-0647). Funding realigned to support associated installation costs.

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0544 / E-2 Series	Modification Number / Title: 2 / 012-17 Structural Enhancements

ID Code (A=Service Ready, B=Not Service Ready) : _____ **MDAP/MAIS Code:** _____

Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	44.762	11.454	15.739	19.516	0.000	19.516	23.012	18.410	12.094	10.713	105.285	260.985
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	44.762	11.454	15.739	19.516	0.000	19.516	23.012	18.410	12.094	10.713	105.285	260.985
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	44.762	11.454	15.739	19.516	0.000	19.516	23.012	18.410	12.094	10.713	105.285	260.985

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The structural modifications to the E-2 series aircraft specifically target improvements to structural integrity in order to improve aircrew safety, modernize the airframe and engine, and incorporate structural enhancements to resolve readiness, obsolescence, and safety issues required for the airframe to reach its designed service life. Retrofit Airframe Change Directives (ACD), Technical Directives (TD), and engineering change proposals are required for the E-2 aircraft to support the incorporation of these established capability, reliability, maintainability, obsolescence, safety and supportability improvements. These improvements are a vital requirement for E-2 to maintain the aircraft in the Fleet until the planned sundown. Funds will be used to implement those changes to sustain and improve the E-2 systems operations and all associated support costs. Aircraft systems upgrades will also be incorporated into existing training devices.

Non-Recurring Engineering (NRE) funding levels will fluctuate due to mix and complexity of aircraft system ECPs being written and verified in each year. All ECPs do not require the same level of NRE. Publications and Integrated Logistics Support also vary from year to year based on complexity of logistics elements and number of publications required to be updated for each individual ECP.

Structural changes to the wing center section will increase survivability, improve maintainability and aircraft availability, eliminate component interferences, improve suitability and correct safety related issues. This effort will sustain the E-2 Fleet in an affordable manner until the follow-on aircraft are fully fielded.

ACD kit procurements are made up of multiple ACD/TDs needed for the Fleet in each year.

FY 2024 funding required to procure and install kits for Rotodome Borescope Access, Crash Survivable Flight Incident Recorder, E-2D Wing Center Section and various ACDs.

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Exhibit P-3a, Individual Modification: PB 2024 Navy										Date: March 2023				
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0544 / E-2 Series					Modification Number / Title: 2 / 012-17 Structural Enhancements				
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:							
Models of Systems Affected: E-2				Modification Type: Safety/Reliability Improvement				Related RDT&E PEs:						
Financial Plan		Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total	
(*) Indicates the modification is being installed organically and no installation funds are required.		Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement														
1.1.1) E-2D Rotodome Bore Scope Access A-Kit - NonOrganic <i>Installation 1 of 7</i>		17 / 0.026	17 / 0.026	16 / 0.025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	50 / 0.077	
1.1.2) E-2D Crash Survivable Flight Incident Recorder A-Kit - NonOrganic <i>Installation 2 of 7</i>		5 / 0.008	5 / 0.008	5 / 0.008	5 / 0.008	- / -	5 / 0.008	5 / 0.009	5 / 0.009	- / -	- / -	- / -	30 / 0.050	
1.1.3) E-2D Anti-Skid Braking System A-Kit - NonOrganic <i>Installation 3 of 7</i>		- / -	- / -	- / -	- / -	- / -	- / -	10 / 0.544	10 / 0.555	12 / 0.679	10 / 0.577	21 / 1.211	63 / 3.566	
1.1.5) E-2D 4B ACD A-Kit - NonOrganic ⁽²⁾ <i>Installation 4 of 7</i>		53 / 2.120	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	53 / 2.120	
1.1.6) E-2D 5A ACD A-Kit - NonOrganic <i>Installation 5 of 7</i>		- / -	57 / 2.630	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	57 / 2.630	
1.1.7) E-2D 7A ACD A-Kit - NonOrganic <i>Installation 6 of 7</i>		- / -	- / -	- / -	57 / 3.251	- / -	57 / 3.251	65 / 3.780	65 / 3.855	65 / 3.928	65 / 4.003	- / -	317 / 18.817	
1.1.8) E-2D 8A ACD A-Kit - NonOrganic ^(*)		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	650 / 42.820	650 / 42.820	
1.2.1) Installation Kits N/R - Organic ^(*) (3)		- / 0.430	- / 0.350	- / 1.500	- / 0.364	- / -	- / 0.364	- / 0.371	- / 0.379	- / 0.386	- / 0.393	- / 4.207	- / 8.380	
1.2.2) OSIP 012-17 A-Kit Archive - Organic ^(*)		- / 2.493	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.493	
2.1.1) E-2D Wing Center Section Modification B-Kit - NonOrganic ⁽⁴⁾ <i>Installation 7 of 7</i>		15 / 5.769	5 / 2.037	5 / 2.091	12 / 5.113	- / -	12 / 5.113	7 / 3.042	- / -	- / -	- / -	- / -	44 / 18.052	
2.1.2) E-2D Anti-Skid Braking System B-Kit - Organic ^(*)		- / -	- / -	- / -	- / -	- / -	- / -	10 / 0.523	10 / 0.534	12 / 0.654	10 / 0.555	31 / 1.742	73 / 4.008	
2.2.1) OSIP 012-17 B-Kit Archive - Organic ^(*)		- / 17.295	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 17.295	
2.2.2) Installation Equip N/R - Organic ^(*) (5)		- / 0.873	- / -	- / -	- / -	- / -	- / -	- / 0.500	- / -	- / -	- / -	- / -	- / 1.373	
Subtotal: Procurement		- / 29.014	- / 5.051	- / 3.624	- / 8.736	- / -	- / 8.736	- / 8.769	- / 5.332	- / 5.647	- / 5.528	- / 49.980	- / 121.681	
Support														
3.1) Data ⁽⁶⁾		- / 0.113	- / 0.039	- / 0.140	- / 0.156	- / -	- / 0.156	- / 0.041	- / 0.042	- / 0.043	- / 0.044	- / 0.469	- / 1.087	
3.2) ILS		- / 1.790	- / 0.614	- / 0.926	- / 0.639	- / -	- / 0.639	- / 0.651	- / 0.663	- / 0.676	- / 0.688	- / 5.074	- / 11.721	
3.3) Support Equipment ⁽⁷⁾		- / 0.030	- / -	- / 0.160	- / 0.163	- / -	- / 0.163	- / -	- / -	- / -	- / -	- / -	- / 0.353	
3.4) Training Equipment ⁽⁸⁾		- / 3.750	- / -	- / 5.229	- / 4.664	- / -	- / 4.664	- / 4.758	- / 4.848	- / 1.510	- / -	- / 12.227	- / 36.986	
3.5) Other Support ⁽⁹⁾		- / 3.797	- / 0.788	- / 1.084	- / 1.297	- / -	- / 1.297	- / 1.322	- / 1.351	- / 1.223	- / 1.401	- / 14.705	- / 26.968	
Subtotal: Support		- / 9.480	- / 1.441	- / 7.539	- / 6.919	- / -	- / 6.919	- / 6.772	- / 6.904	- / 3.452	- / 2.133	- / 32.475	- / 77.115	
Installation														
Installation 1 of 7: E-2D Rotodome Bore Scope Access A-Kit		- / 1.153	- / 1.175	- / 1.127	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 3.455	

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Exhibit P-3a, Individual Modification: PB 2024 Navy **Date:** March 2023

Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0544 / E-2 Series	Modification Number / Title: 2 / 012-17 Structural Enhancements
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ID Code (A=Service Ready, B=Not Service Ready) : **MDAP/MAIS Code:**

Models of Systems Affected: E-2 **Modification Type:** Safety/Reliability Improvement **Related RDT&E PEs:**

Financial Plan <small>(*) Indicates the modification is being installed organically and no installation funds are required.</small>	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>
Installation 2 of 7: E-2D Crash Survivable Flight Incident Recorder A-Kit	- / 0.038	- / 0.039	- / 0.040	- / 0.040	- / 0.000	- / 0.040	- / 0.041	- / 0.042	- / -	- / -	- / 0.000	- / 0.240
Installation 3 of 7: E-2D Anti-Skid Braking System A-Kit	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.973	- / 1.190	- / 1.213	- / 3.154	- / 6.530
Installation 4 of 7: E-2D 4B ACD A-Kit	- / -	- / 1.438	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 1.438
Installation 5 of 7: E-2D 5A ACD A-Kit	- / -	- / -	- / 1.127	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 1.127
Installation 6 of 7: E-2D 7A ACD A-Kit	- / -	- / -	- / -	- / 1.495	- / 0.000	- / 1.495	- / 1.737	- / 1.772	- / 1.805	- / 1.839	- / 0.000	- / 8.648
Installation 7 of 7: E-2D Wing Center Section Modification B-Kit	- / 5.077	- / 2.310	- / 2.282	- / 2.326	- / 0.000	- / 2.326	- / 5.693	- / 3.387	- / -	- / -	- / 0.000	- / 21.075
Subtotal: Installation	- / 6.268	- / 4.962	- / 4.576	- / 3.861	- / -	- / 3.861	- / 7.471	- / 6.174	- / 2.995	- / 3.052	- / 22.830	- / 62.189
Total												
Total Cost (Procurement + Support + Installation)	44.762	11.454	15.739	19.516	0.000	19.516	23.012	18.410	12.094	10.713	105.285	260.985

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Exhibit P-3a, Individual Modification: PB 2024 Navy **Date:** March 2023

Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0544 / E-2 Series	Modification Number / Title: 2 / 012-17 Structural Enhancements
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ID Code (A=Service Ready, B=Not Service Ready) : **MDAP/MAIS Code:**

Installation 1 of 7: E-2D Rotodome Bore Scope Access A-Kit

Manufacturer Information

Manufacturer Name: E-2D Rotodome Bore Scope Access Manufacturer Location: Field Mod Team

Administrative Leadtime (in Months): 2 Production Leadtime (in Months): 6

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates	Nov 2021	Nov 2022					
Delivery Dates	May 2022	May 2023					

Installation Information

Method of Implementation: Field Mod Team:: Installation Name: E-2D Rotodome Bore Scope Access A-Kit

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	17 / 1.153	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	17 / 1.153
FY 2022	- / -	17 / 1.175	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	17 / 1.175
FY 2023	- / -	- / -	16 / 1.127	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	16 / 1.127
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	17 / 1.153	17 / 1.175	16 / 1.127	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	50 / 3.455

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot	
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4			
In	7	5	5	3	4	5	5	3	4	5	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	50
Out	7	5	5	3	4	5	5	3	4	5	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	50

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Exhibit P-3a, Individual Modification: PB 2024 Navy **Date:** March 2023

Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0544 / E-2 Series	Modification Number / Title: 2 / 012-17 Structural Enhancements
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ID Code (A=Service Ready, B=Not Service Ready) : **MDAP/MAIS Code:**

Installation 2 of 7: E-2D Crash Survivable Flight Incident Recorder A-Kit

Manufacturer Information

Manufacturer Name: E-2D Crash Survivable Flight Incident Recorder Manufacturer Location: Field Mod Team

Administrative Leadtime (in Months): 3 Production Leadtime (in Months): 3

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates	Dec 2021	Dec 2022	Dec 2023	Dec 2024	Dec 2025		
Delivery Dates	Mar 2022	Mar 2023	Mar 2024	Mar 2025	Mar 2026		

Installation Information

Method of Implementation: Field Mod Team:: Installation Name: E-2D Crash Survivable Flight Incident Recorder A-Kit

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	5 / 0.038	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	5 / 0.038
FY 2022	- / -	5 / 0.039	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	5 / 0.039
FY 2023	- / -	- / -	5 / 0.040	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	5 / 0.040
FY 2024	- / -	- / -	- / -	5 / 0.040	0 / 0.000	5 / 0.040	- / -	- / -	- / -	- / -	0 / 0.000	5 / 0.040
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	5 / 0.041	- / -	- / -	- / -	0 / 0.000	5 / 0.041
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	5 / 0.042	- / -	- / -	0 / 0.000	5 / 0.042
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	5 / 0.038	5 / 0.039	5 / 0.040	5 / 0.040	0 / 0.000	5 / 0.040	5 / 0.041	5 / 0.042	- / -	- / -	0 / 0.000	30 / 0.240

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	4	1	1	1	2	1	1	1	2	1	1	1	2	1	1	1	2	1	1	2	2	-	-	-	-	-	-	-	-	-	-
Out	4	1	1	1	2	1	1	1	2	1	1	1	2	1	1	1	2	1	1	2	2	-	-	-	-	-	-	-	-	-	-

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy **Date:** March 2023

Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0544 / E-2 Series	Modification Number / Title: 2 / 012-17 Structural Enhancements
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ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Installation 3 of 7: E-2D Anti-Skid Braking System A-Kit

Manufacturer Information

Manufacturer Name: E-2D Anti-Skid Braking System	Manufacturer Location: Field Mod Team
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Administrative Leadtime (in Months): 6	Production Leadtime (in Months): 12
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Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates				Mar 2025	Mar 2026	Mar 2027	Mar 2028
Delivery Dates				Mar 2026	Mar 2027	Mar 2028	Mar 2029

Installation Information

Method of Implementation: Field Mod Team:: Installation Name: E-2D Anti-Skid Braking System A-Kit

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	10 / 0.973	- / -	- / -	0 / 0.000	10 / 0.973
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	10 / 1.190	- / -	0 / 0.000	10 / 1.190
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	12 / 1.213	0 / 0.000	12 / 1.213
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	10 / 1.011	10 / 1.011
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	21 / 2.143	21 / 2.143
Total	- / -	- / -	- / -	- / -	- / -	- / -	- / -	10 / 0.973	10 / 1.190	12 / 1.213	31 / 3.154	63 / 6.530

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	3	3	3	3	3	3	1	3	3	3	34	63
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	3	3	3	3	3	3	1	3	3	3	34	63

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy **Date:** March 2023

Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0544 / E-2 Series	Modification Number / Title: 2 / 012-17 Structural Enhancements
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ID Code (A=Service Ready, B=Not Service Ready) : **MDAP/MAIS Code:**

Installation 4 of 7: E-2D 4B ACD A-Kit

Manufacturer Information

Manufacturer Name: TBD	Manufacturer Location: TBD
Administrative Leadtime (in Months): 0	Production Leadtime (in Months): 0

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates							
Delivery Dates							

Installation Information

Method of Implementation: Field Mod Team:: Installation Name: E-2D 4B ACD A-Kit

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	53 / 1.438	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	53 / 1.438
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	53 / 1.438	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	53 / 1.438

Installation Schedule

PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	10	14	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	53
Out	-	10	14	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	53

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy **Date:** March 2023

Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0544 / E-2 Series	Modification Number / Title: 2 / 012-17 Structural Enhancements
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ID Code (A=Service Ready, B=Not Service Ready) : **MDAP/MAIS Code:**

Installation 5 of 7: E-2D 5A ACD A-Kit

Manufacturer Information

Manufacturer Name: TBD	Manufacturer Location: TBD
Administrative Leadtime (in Months): 0	Production Leadtime (in Months): 0

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates							
Delivery Dates							

Installation Information

Method of Implementation: [none specified]:: Installation Name: E-2D 5A ACD A-Kit

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	57 / 1.127	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	57 / 1.127
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	57 / 1.127	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	57 / 1.127

Installation Schedule

PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	15	15	15	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	57
Out	-	-	-	-	15	15	15	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	57

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy **Date:** March 2023

Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0544 / E-2 Series	Modification Number / Title: 2 / 012-17 Structural Enhancements
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ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Installation 6 of 7: E-2D 7A ACD A-Kit

Manufacturer Information

Manufacturer Name: E-2D 7A ACD Kit	Manufacturer Location: Field Mod Team
Administrative Leadtime (in Months): 2	Production Leadtime (in Months): 3

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates			Nov 2023	Nov 2024	Nov 2025	Nov 2026	
Delivery Dates			Feb 2024	Feb 2025	Feb 2026	Feb 2027	

Installation Information

Method of Implementation: Field Mod Team:: Installation Name: E-2D 7A ACD A-Kit

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	57 / 1.495	0 / 0.000	57 / 1.495	- / -	- / -	- / -	- / -	0 / 0.000	57 / 1.495
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	65 / 1.737	- / -	- / -	- / -	0 / 0.000	65 / 1.737
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	65 / 1.772	- / -	- / -	0 / 0.000	65 / 1.772
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	65 / 1.805	- / -	0 / 0.000	65 / 1.805
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	48 / 1.839	17 / 0.000	65 / 1.839
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	57 / 1.495	0 / 0.000	57 / 1.495	65 / 1.737	65 / 1.772	65 / 1.805	48 / 1.839	17 / 0.000	317 / 8.648

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot				
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4						
In	-	-	-	-	-	-	-	-	-	-	14	14	14	15	16	16	16	17	16	16	16	17	16	16	16	17	16	16	16	17	16	16	16	17	317
Out	-	-	-	-	-	-	-	-	-	-	14	14	14	15	16	16	16	17	16	16	16	17	16	16	16	17	16	16	16	17	16	16	16	17	317

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy **Date:** March 2023

Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0544 / E-2 Series	Modification Number / Title: 2 / 012-17 Structural Enhancements
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ID Code (A=Service Ready, B=Not Service Ready) : **MDAP/MAIS Code:**

Installation 7 of 7: E-2D Wing Center Section Modification B-Kit

Manufacturer Information

Manufacturer Name: E-2D Wing Center Section Modification	Manufacturer Location: Field Mod Team
Administrative Leadtime (in Months): 6	Production Leadtime (in Months): 10

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates	Mar 2022	Mar 2023	Mar 2024	Mar 2025			
Delivery Dates	Jan 2023	Jan 2024	Jan 2025	Jan 2026			

Installation Information

Method of Implementation: Field Mod Team:: Installation Name: E-2D Wing Center Section Modification B-Kit

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	10 / 5.077	5 / 2.310	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	15 / 7.387
FY 2022	- / -	- / -	5 / 2.282	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	5 / 2.282
FY 2023	- / -	- / -	- / -	5 / 2.326	0 / 0.000	5 / 2.326	- / -	- / -	- / -	- / -	0 / 0.000	5 / 2.326
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	12 / 5.693	- / -	- / -	- / -	0 / 0.000	12 / 5.693
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	7 / 3.387	- / -	- / -	0 / 0.000	7 / 3.387
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	10 / 5.077	5 / 2.310	5 / 2.282	5 / 2.326	0 / 0.000	5 / 2.326	12 / 5.693	7 / 3.387	- / -	- / -	0 / 0.000	44 / 21.075

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	9	1	1	1	2	1	1	1	2	1	1	1	2	1	3	3	3	3	3	2	2	-	-	-	-	-	-	-	-	-	-
Out	9	1	1	1	2	1	1	1	2	1	1	1	2	1	3	3	3	3	3	2	2	-	-	-	-	-	-	-	-	-	-

Footnotes:
 (2) Kits are made up of multiple ACDs needed for the Fleet in each fiscal year.
 (3) Installation Kits N/R required for Engineering Change Proposal development efforts for multiple kits in each fiscal year.
 (4) FY 2024 increase to E-2D Wing Center Section Modification B-Kits due to reflection of actual contracted unit cost.

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0544 / E-2 Series	Modification Number / Title: 2 / 012-17 Structural Enhancements
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:
<p>(5) Increase in FY 2025 due ramp up for the start of the E-2D Improved Landing Mode ECP in FY 2026.</p> <p>(6) FY 2024 increase in Data required for ramp up of Ant-Skid Braking System efforts.</p> <p>(7) FY 2024 Support Equipment required for ramp up of Anti-Skid Braking System effort in FY 2024.</p> <p>(8) Training Equipment required to modify E-2 aircrew and maintenance training devices due to incorporation of E-2 ECPs within a fiscal year.</p> <p>(9) Other Support: FY 2024 increase due to start of Anti-Skid Braking System efforts.</p>		

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Exhibit P-3a, Individual Modification: PB 2024 Navy	Date: March 2023
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Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0544 / E-2 Series	Modification Number / Title: 3 / 002-18 E-2D Aerial Refueling
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ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	138.847	37.705	37.757	38.478	0.000	38.478	39.216	28.084	0.000	0.000	0.000	320.087
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) <i>(\$ in Millions)</i>	138.847	37.705	37.757	38.478	0.000	38.478	39.216	28.084	0.000	0.000	0.000	320.087
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	138.847	37.705	37.757	38.478	0.000	38.478	39.216	28.084	0.000	0.000	0.000	320.087

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Dollars)</i>	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The E-2D Aerial Refueling (AR) OSIP (002-18) will allow the E-2D to receive fuel from various organic and non-organic tanker aircraft. It will provide Expanded Battle Space Surveillance and Targeting through significantly enhanced persistence and increased flexibility (range & endurance).

Aerial Refueling modifications will cut into the production line on aircraft 46.

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Exhibit P-3a, Individual Modification: PB 2024 Navy											Date: March 2023		
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0544 / E-2 Series				Modification Number / Title: 3 / 002-18 E-2D Aerial Refueling					
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: E-2D				Modification Type: Mission Performance Enhancements				Related RDT&E PEs: 0604234N					
Financial Plan	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
1.1.1) E-2D Aerial Refueling B-Kit - NonOrganic Installation 1 of 1	19 / 39.219	5 / 10.310	5 / 10.530	5 / 10.730	- / -	5 / 10.730	5 / 10.945	- / -	- / -	- / -	- / -	39 / 81.734	
<i>Subtotal: Procurement</i>	- / 39.219	- / 10.310	- / 10.530	- / 10.730	- / -	- / 10.730	- / 10.945	- / -	- / -	- / -	- / 0.000	- / 81.734	
Support													
2.1) Data	- / 1.097	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.097	
2.2) ILS	- / 2.664	- / 1.381	- / 0.487	- / 0.496	- / -	- / 0.496	- / 0.475	- / 0.380	- / -	- / -	- / -	- / 5.883	
2.3) Training Equipment	- / 17.901	- / 1.793	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 19.694	
2.4) Support Equipment	- / 1.855	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.855	
2.5) Other Support	- / 9.614	- / 2.743	- / 2.831	- / 2.889	- / -	- / 2.889	- / 2.946	- / 2.356	- / -	- / -	- / -	- / 23.379	
<i>Subtotal: Support</i>	- / 33.131	- / 5.917	- / 3.318	- / 3.385	- / -	- / 3.385	- / 3.421	- / 2.736	- / -	- / -	- / 0.000	- / 51.908	
Installation													
<i>Installation 1 of 1:</i> E-2D Aerial Refueling B-Kit	- / 66.497	- / 21.478	- / 23.909	- / 24.363	- / 0.000	- / 24.363	- / 24.850	- / 25.348	- / -	- / -	- / 0.000	- / 186.445	
<i>Subtotal: Installation</i>	- / 66.497	- / 21.478	- / 23.909	- / 24.363	- / -	- / 24.363	- / 24.850	- / 25.348	- / -	- / -	- / 0.000	- / 186.445	
Total													
Total Cost (Procurement + Support + Installation)	138.847	37.705	37.757	38.478	0.000	38.478	39.216	28.084	0.000	0.000	0.000	320.087	

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Exhibit P-3a, Individual Modification: PB 2024 Navy **Date:** March 2023

Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0544 / E-2 Series	Modification Number / Title: 3 / 002-18 E-2D Aerial Refueling
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ID Code (A=Service Ready, B=Not Service Ready) : **MDAP/MAIS Code:**

Installation 1 of 1: E-2D Aerial Refueling B-Kit

Manufacturer Information

Manufacturer Name: E-2D Aerial Refueling Manufacturer Location: Field Mod Team

Administrative Leadtime (in Months): 8 Production Leadtime (in Months): 11

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates	May 2022	May 2023	May 2024	May 2025			
Delivery Dates	Apr 2023	Apr 2024	Apr 2025	Apr 2026			

Installation Information

Method of Implementation: Field Mod Team:: Installation Name: E-2D Aerial Refueling B-Kit

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	14 / 66.497	5 / 21.478	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	19 / 87.975
FY 2022	- / -	- / -	5 / 23.909	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	5 / 23.909
FY 2023	- / -	- / -	- / -	5 / 24.363	0 / 0.000	5 / 24.363	- / -	- / -	- / -	- / -	0 / 0.000	5 / 24.363
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	5 / 24.850	- / -	- / -	- / -	0 / 0.000	5 / 24.850
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	5 / 25.348	- / -	- / -	0 / 0.000	5 / 25.348
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	14 / 66.497	5 / 21.478	5 / 23.909	5 / 24.363	0 / 0.000	5 / 24.363	5 / 24.850	5 / 25.348	- / -	- / -	0 / 0.000	39 / 186.445

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	14	1	1	1	2	1	1	1	2	1	1	1	2	1	1	1	2	1	1	1	2	-	-	-	-	-	-	-	-	-	39
Out	14	1	1	1	2	1	1	1	2	1	1	1	2	1	1	1	2	1	1	1	2	-	-	-	-	-	-	-	-	-	39

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0544 / E-2 Series	Modification Number / Title: 4 / 003-18 E-2 SIPR CHAT

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	36.594	26.833	28.110	15.724	0.000	15.724	12.940	2.218	0.000	0.000	0.000	122.419
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	36.594	26.833	28.110	15.724	0.000	15.724	12.940	2.218	0.000	0.000	0.000	122.419
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	36.594	26.833	28.110	15.724	0.000	15.724	12.940	2.218	0.000	0.000	0.000	122.419

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The E-2 Secret Internet Protocol Router Chat (SIPR) OSIP (03-18), will support the integration of current collaboration tools including tactical "chat" (text) communications, real-time tasking, and Air Tasking Order distribution. Recent real world operations have demonstrated a migration of Command and Control communications from voice to Internet protocol based networks.

OSIP 003-18 will retrofit E-2 aircraft with a fully integrated Beyond Line of Sight (BLOS) system to provide the SIPR Chat capability to multiple operators. In support of multiple Urgent Operational Need (UON) letters (Ser N00/S536-7 & Ser N01/S001), a Hybrid Beyond Line of Sight (H-BLOS) system provides an interim SIPR Chat solution to single operator via a separate laptop. This opportunity provides the Fleet with the critical SIPR Chat capability over 3 years earlier than the fully integrated BLOS solution. Current projections show this interim solution will be utilized on at least nine (9) E-2D deployments before the fully integrated BLOS solution is fielded and ready to deploy.

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Exhibit P-3a, Individual Modification: PB 2024 Navy										Date: March 2023			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0544 / E-2 Series					Modification Number / Title: 4 / 003-18 E-2 SIPR CHAT			
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: E-2				Modification Type: Mission Performance Enhancements				Related RDT&E PEs: 0604234N					
Financial Plan	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
Modification Item 1 of 1: 003-18 E-2 SIPR CHAT													
A Kits													
Recurring													
1.1.1) E-2D H-BLOS SIPR Chat A-Kit - NonOrganic	19 / 14.779	15 / 17.708	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	34 / 32.487	
1.1.2) E-2D Beyond Line of Sight SIPR Chat A-Kit - NonOrganic	7 / 0.760	6 / 0.634	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	13 / 1.394	
1.1.3) E-2D H-BLOS to BLOS SIPR Chat Conversion A-Kit - NonOrganic ⁽¹⁰⁾	- / -	- / -	10 / 2.336	14 / 3.271	- / -	14 / 3.271	14 / 3.271	- / -	- / -	- / -	- / -	38 / 8.878	
Subtotal: Recurring	- / 15.539	- / 18.342	- / 2.336	- / 3.271	- / -	- / 3.271	- / 3.271	- / -	- / -	- / -	- / 0.000	- / 42.759	
Non-Recurring													
1.2.1) Installation Kits N/R - Organic	- / 1.550	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.550	
Subtotal: Non-Recurring	- / 1.550	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 1.550	
B Kits													
Recurring													
2.1.1) E-2D H-BLOS SIPR Chat B-Kit - Organic	36 / 2.973	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	36 / 2.973	
2.1.2) E-2D Beyond Line of Sight SIPR Chat B-Kit - Organic	7 / 4.250	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	7 / 4.250	
2.1.3) E-2D H-BLOS to BLOS SIPR Chat Conversion B-Kit - Organic	- / -	- / -	10 / 9.813	14 / 7.632	- / -	14 / 7.632	14 / 7.632	- / -	- / -	- / -	- / -	38 / 25.077	
Subtotal: Recurring	- / 7.223	- / -	- / 9.813	- / 7.632	- / -	- / 7.632	- / 7.632	- / -	- / -	- / -	- / 0.000	- / 32.300	
Subtotal: 003-18 E-2 SIPR CHAT	69 / 24.312	21 / 18.342	20 / 12.149	28 / 10.903	- / -	28 / 10.903	28 / 10.903	- / -	- / -	- / -	- / -	166 / 76.609	
Subtotal: Procurement, All Modification Items	- / 24.312	- / 18.342	- / 12.149	- / 10.903	- / -	- / 10.903	- / 10.903	- / -	- / -	- / -	- / 0.000	- / 76.609	
Support (All Modification Items)													
3.1) ILS	- / 0.619	- / -	- / 0.325	- / 0.260	- / -	- / 0.260	- / -	- / -	- / -	- / -	- / -	- / 1.204	
3.2) Training Equipment ⁽¹¹⁾	- / 8.348	- / 5.819	- / 5.356	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 19.523	
3.3) Support Equipment ⁽¹²⁾	- / 0.407	- / -	- / 2.754	- / 2.803	- / -	- / 2.803	- / -	- / -	- / -	- / -	- / -	- / 5.964	
3.4) Other Support	- / 1.495	- / 1.909	- / 0.802	- / 0.631	- / -	- / 0.631	- / 0.460	- / 0.641	- / -	- / -	- / -	- / 5.938	
Subtotal: Support	- / 10.869	- / 7.728	- / 9.237	- / 3.694	- / -	- / 3.694	- / 0.460	- / 0.641	- / -	- / -	- / 0.000	- / 32.629	
Installation													
Modification Item 1 of 1: 003-18 E-2 SIPR CHAT	- / 1.413	- / 0.763	- / 6.724	- / 1.127	- / 0.000	- / 1.127	- / 1.577	- / 1.577	- / 0.000	- / 0.000	- / 0.000	- / 13.181	

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Exhibit P-3a, Individual Modification: PB 2024 Navy **Date:** March 2023

Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0544 / E-2 Series	Modification Number / Title: 4 / 003-18 E-2 SIPR CHAT
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ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Models of Systems Affected: E-2	Modification Type: Mission Performance Enhancements	Related RDT&E PEs: 0604234N
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Financial Plan	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
<i>Subtotal: Installation</i>	- / 1.413	- / 0.763	- / 6.724	- / 1.127	- / -	- / 1.127	- / 1.577	- / 1.577	- / -	- / -	- / 0.000	- / 13.181
Total												
Total Cost (Procurement + Support + Installation)	36.594	26.833	28.110	15.724	0.000	15.724	12.940	2.218	0.000	0.000	0.000	122.419

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Exhibit P-3a, Individual Modification: PB 2024 Navy **Date:** March 2023

Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0544 / E-2 Series	Modification Number / Title: 4 / 003-18 E-2 SIPR CHAT
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ID Code (A=Service Ready, B=Not Service Ready) : **MDAP/MAIS Code:**

Modification Item 1 of 1: 003-18 E-2 SIPR CHAT

Manufacturer Information

Manufacturer Name: E-2D SIPR Chat Kit Install	Manufacturer Location: Field Mod Team
Administrative Leadtime (in Months): 9	Production Leadtime (in Months): 16

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates	Dec 2021	Jun 2022	Jun 2023	Jun 2024			
Delivery Dates	Dec 2022	Jun 2023	Sep 2024	Sep 2025			

Installation Information

Method of Implementation: Field Mod Team:: Installation Name: E-2D SIPR Chat Kit Install

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	19 / 1.413	7 / 0.763	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	26 / 2.176
FY 2022	- / -	- / -	21 / 6.724	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	21 / 6.724
FY 2023	- / -	- / -	- / -	10 / 1.127	0 / 0.000	10 / 1.127	- / -	- / -	- / -	- / -	0 / 0.000	10 / 1.127
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	14 / 1.577	- / -	- / -	- / -	0 / 0.000	14 / 1.577
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	14 / 1.577	- / -	- / -	0 / 0.000	14 / 1.577
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	19 / 1.413	7 / 0.763	21 / 6.724	10 / 1.127	0 / 0.000	10 / 1.127	14 / 1.577	14 / 1.577	- / -	- / -	0 / 0.000	85 / 13.181

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	19	1	2	2	2	1	6	7	7	-	3	3	4	4	4	3	3	3	3	4	4	-	-	-	-	-	-	-	-	-	-
Out	19	1	2	2	2	1	6	7	7	-	3	3	4	4	4	3	3	3	3	4	4	-	-	-	-	-	-	-	-	-	-

Method of Implementation (Organic): E-2D H-BLOS SIPR Chat B-Kit **Installation Quantity:** 36

Method of Implementation (Organic): E-2D Beyond Line of Sight SIPR Chat B-Kit **Installation Quantity:** 7

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0544 / E-2 Series	Modification Number / Title: 4 / 003-18 E-2 SIPR CHAT
ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:	
Modification Item 1 of 1: 003-18 E-2 SIPR CHAT		
Installation Information		
Method of Implementation (Organic): E-2D H-BLOS to BLOS SIPR Chat Conversion B-Kit		Installation Quantity: 38

Footnotes:

- ⁽¹⁰⁾ Hybrid Beyond Line of Sight (H-BLOS) to Beyond Line of Sight (BLOS) SIPR Chat conversion kits required to modify (49) E-2D aircraft that received the interim H-BLOS solution to the full BLOS capability.
- ⁽¹¹⁾ Training Equipment requires the integration and verification of SIPR CHAT capability into aircrew and maintenance training devices and updates to applicable software. SIPR CHAT capability integration requires aircrew and maintenance training devices to be connected to SIPR NET resulting in increased cyber compliance. SIPR CHAT will also require additional testing to ensure interoperability and RMF compliance. Funding requirements will vary depending on type of training system being modified in any given fiscal year.
- ⁽¹²⁾ Support Equipment (SE) requirements: Unexpected obsolescence in critical Peculiar SE resulting in new Peculiar SE being required to support SIPR CHAT kit procurements and installations.

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0544 / E-2 Series	Modification Number / Title: 5 / 011-19 Navigational Warfare (NAVWAR)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	6.401	8.474	12.816	5.031	0.000	5.031	1.924	0.539	0.000	0.000	0.000	35.185
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	6.401	8.474	12.816	5.031	0.000	5.031	1.924	0.539	0.000	0.000	0.000	35.185
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	6.401	8.474	12.816	5.031	0.000	5.031	1.924	0.539	0.000	0.000	0.000	35.185

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Procurement of kits and installs to provide a Navigation Warfare (NAVWAR) capability including the integration of the Advanced Digital Antenna Production (ADAP) Controlled Reception Pattern Antenna (CRPA) and Antenna Electronics. NAVWAR capability allows the E-2D AHE to operate in areas where signal disruption would prohibit unprotected Global Positioning System (GPS) reception. The aircraft will be able to provide continuous operations in a degraded GPS environment for mission areas that depend on GPS for precise position, navigation, and timing.

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0544 / E-2 Series	Modification Number / Title: 5 / 011-19 Navigational Warfare (NAVWAR)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Models of Systems Affected: E-2	Modification Type: Mission Performance Enhancements	Related RDT&E PEs:
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Financial Plan <small>(* Indicates the modification is being installed organically and no installation funds are required.)</small>	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Procurement												
1.1.1) NAVWAR A-Kit - NonOrganic ⁽¹³⁾ <i>Installation 1 of 1</i>	- / 1.795	25 / 1.525	18 / 1.119	9 / 0.570	- / -	9 / 0.570	- / -	- / -	- / -	- / -	- / -	52 / 5.009
2.1.1) NAVWAR B-Kit - Organic ⁽¹⁾	- / 0.668	25 / 3.082	18 / 2.709	9 / 1.355	- / -	9 / 1.355	- / -	- / -	- / -	- / -	- / -	52 / 7.814
<i>Subtotal: Procurement</i>	- / 2.463	- / 4.607	- / 3.828	- / 1.925	- / -	- / 1.925	- / -	- / -	- / -	- / -	- / 0.000	- / 12.823
Support												
3.1) ILS	- / 0.092	- / 0.005	- / 0.095	- / 0.109	- / -	- / 0.109	- / 0.106	- / 0.080	- / -	- / -	- / -	- / 0.487
3.2) Training Equipment	- / 3.310	- / 2.455	- / 5.017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 10.782
3.3) Other Support	- / 0.536	- / 1.407	- / 0.565	- / 0.568	- / -	- / 0.568	- / 0.579	- / 0.459	- / -	- / -	- / -	- / 14.114
<i>Subtotal: Support</i>	- / 3.938	- / 3.867	- / 5.677	- / 0.677	- / -	- / 0.677	- / 0.685	- / 0.539	- / -	- / -	- / 0.000	- / 15.383
Installation												
<i>Installation 1 of 1: NAVWAR A-Kit</i>	- / -	- / -	- / 3.311	- / 2.429	- / 0.000	- / 2.429	- / 1.239	- / -	- / -	- / -	- / 0.000	- / 6.979
<i>Subtotal: Installation</i>	- / 0.000	- / -	- / 3.311	- / 2.429	- / -	- / 2.429	- / 1.239	- / -	- / -	- / -	- / 0.000	- / 6.979
Total												
Total Cost (Procurement + Support + Installation)	6.401	8.474	12.816	5.031	0.000	5.031	1.924	0.539	0.000	0.000	0.000	35.185

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0544 / E-2 Series	Modification Number / Title: 5 / 011-19 Navigational Warfare (NAVWAR)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Installation 1 of 1: NAVWAR A-Kit

Manufacturer Information

Manufacturer Name: NAVWAR	Manufacturer Location: Field Mod Team
Administrative Leadtime (in Months): 6	Production Leadtime (in Months): 10

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates	Mar 2022	Mar 2023	Mar 2024				
Delivery Dates	Jan 2023	Jan 2024	Jan 2025				

Installation Information

Method of Implementation: Field Mod Team:: Installation Name: NAVWAR A-Kit

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	25 / 3.311	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	25 / 3.311
FY 2023	- / -	- / -	- / -	18 / 2.429	0 / 0.000	18 / 2.429	- / -	- / -	- / -	- / -	0 / 0.000	18 / 2.429
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	9 / 1.239	- / -	- / -	- / -	0 / 0.000	9 / 1.239
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	25 / 3.311	18 / 2.429	0 / 0.000	18 / 2.429	9 / 1.239	- / -	- / -	- / -	0 / 0.000	52 / 6.979

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot									
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4											
In	-	-	-	-	-	-	5	5	5	6	6	6	6	6	4	4	4	4	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Out	-	-	-	-	-	-	5	5	5	6	6	6	6	6	4	4	4	4	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Footnotes:
⁽¹³⁾ NAVWAR A-Kit and B-Kit procurement adjusted to reflect anticipated aircraft availability for installation.

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0544 / E-2 Series	Modification Number / Title: 6 / 003-20 Advanced Radar Processor

ID Code (A=Service Ready, B=Not Service Ready) : _____ **MDAP/MAIS Code:** _____

Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	69.385	32.926	4.344	2.797	0.000	2.797	0.000	0.000	0.000	0.000	0.000	109.452
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	69.385	32.926	4.344	2.797	0.000	2.797	0.000	0.000	0.000	0.000	0.000	109.452
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	69.385	32.926	4.344	2.797	0.000	2.797	0.000	0.000	0.000	0.000	0.000	109.452

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

E-2D Advanced Radar Processor (ARP) is an essential upgrade to the E-2D APY-9 Radar system that improves the radar processing capability six fold, reduces production costs, addresses obsolescence, reduces future support costs and enables future growth by reducing the number of Subsystem Replaceable Assembly's in the processors. ARP is required to support the transition of current Science & Technology investments in Naval Integrated Fire Control (NIFC) (Increment 3), Counter Electronic Attack and Sensor Netting.

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Exhibit P-3a, Individual Modification: PB 2024 Navy										Date: March 2023			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0544 / E-2 Series					Modification Number / Title: 6 / 003-20 Advanced Radar Processor			
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: E-2				Modification Type: Mission Performance Enhancement				Related RDT&E PEs: 0604234N					
Financial Plan	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
<i>Modification Item 1 of 1: 003-20 Advanced Radar Processor</i>													
A Kits													
Recurring													
1.1.1) ARP B-Kit - NonOrganic ⁽¹⁴⁾	28 / 55.955	7 / 27.751	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	35 / 83.706	
<i>Subtotal: Recurring</i>	- / 55.955	- / 27.751	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 83.706	
<i>Subtotal: 003-20 Advanced Radar Processor</i>	28 / 55.955	7 / 27.751	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	35 / 83.706	
<i>Subtotal: Procurement, All Modification Items</i>	- / 55.955	- / 27.751	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 83.706	
Support (All Modification Items)													
2.1) Data	- / 0.841	- / -	- / 0.297	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.138	
2.2) ILS	- / 4.590	- / 2.065	- / 0.624	- / 0.562	- / -	- / 0.562	- / -	- / -	- / -	- / -	- / -	- / 7.841	
2.3) Training Equipment	- / 0.743	- / 0.012	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.755	
2.4) Support Equipment	- / 0.870	- / 0.183	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.053	
2.5) Other Support	- / 5.714	- / 2.306	- / 2.028	- / 1.405	- / -	- / 1.405	- / -	- / -	- / -	- / -	- / -	- / 11.453	
<i>Subtotal: Support</i>	- / 12.758	- / 4.566	- / 2.949	- / 1.967	- / -	- / 1.967	- / -	- / -	- / -	- / -	- / 0.000	- / 22.240	
Installation													
<i>Modification Item 1 of 1: 003-20 Advanced Radar Processor</i>	- / 0.672	- / 0.609	- / 1.395	- / 0.830	- / 0.000	- / 0.830	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 3.506	
<i>Subtotal: Installation</i>	- / 0.672	- / 0.609	- / 1.395	- / 0.830	- / -	- / 0.830	- / -	- / -	- / -	- / -	- / 0.000	- / 3.506	
Total													
Total Cost (Procurement + Support + Installation)	69.385	32.926	4.344	2.797	0.000	2.797	0.000	0.000	0.000	0.000	0.000	109.452	

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Exhibit P-3a, Individual Modification: PB 2024 Navy **Date:** March 2023

Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0544 / E-2 Series	Modification Number / Title: 6 / 003-20 Advanced Radar Processor
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ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Modification Item 1 of 1: 003-20 Advanced Radar Processor

Manufacturer Information

Manufacturer Name: ARP B-Kit	Manufacturer Location: Field Mod Team
Administrative Leadtime (in Months): 10	Production Leadtime (in Months): 18

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates	Jul 2022						
Delivery Dates	Jan 2024						

Installation Information

Method of Implementation: Field Mod Team:: Installation Name: ARP B-Kit

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	6 / 0.672	10 / 0.609	12 / 1.395	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	28 / 2.676
FY 2022	- / -	- / -	- / -	7 / 0.830	0 / 0.000	7 / 0.830	- / -	- / -	- / -	- / -	0 / 0.000	7 / 0.830
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	6 / 0.672	10 / 0.609	12 / 1.395	7 / 0.830	0 / 0.000	7 / 0.830	- / -	- / -	- / -	- / -	0 / 0.000	35 / 3.506

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot		
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4				
In	5	1	2	3	3	2	3	3	3	3	2	2	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Out	5	1	2	3	3	2	3	3	3	3	2	2	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Footnotes:
 (14) Advanced Radar Processor (ARP) capability into the E-2D aircraft has been accelerated to meet Fleet requirements and realize cost savings. ARP B-Kit unit costs updated per negotiated contract costs. ARP B-Kit cost savings realigned to various Training Equipment and Support Equipment requirements to retrofit Delta System Software Configuration (DSSC) 4 and 5 hardware and software upgrades into all E-2 trainers.

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0544 / E-2 Series	Modification Number / Title: 7 / 016-20 Technology Upgrades

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	10.520	7.134	33.395	39.212	0.000	39.212	49.356	50.147	54.727	176.495	1,422.020	1,843.006
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	10.520	7.134	33.395	39.212	0.000	39.212	49.356	50.147	54.727	176.495	1,422.020	1,843.006
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	10.520	7.134	33.395	39.212	0.000	39.212	49.356	50.147	54.727	176.495	1,422.020	1,843.006

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

E-2 Technology Upgrades OSIP was established to ensure fleet configuration management and address deficiencies and obsolescence of Mission Systems hardware, software and firmware components. The E-2 platform is technology dependent and Commercial-Off-The-Shelf (COTS) intensive, leaving it vulnerable to industry component lifecycle trends which are typically 3-5 years. This OSIP funds Mission Systems improvements of, but not limited to, aircraft avionics, displays, navigation, communication, electronic sensors, and datalinks identified as fleet prioritized requirements to address reliability improvements, obsolescence, urgent operational needs, and flight safety issues. Funds will be utilized to manage, process, and incorporate Mission Systems ECP upgrades and implement changes to sustain and improve mission system readiness. The Technology Upgrades OSIP will execute a strategic, comprehensive plan to mitigate component level end of production and end of support due to deficiencies and obsolescence on all E-2 aircraft and trainers.

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Exhibit P-3a, Individual Modification: PB 2024 Navy										Date: March 2023				
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0544 / E-2 Series					Modification Number / Title: 7 / 016-20 Technology Upgrades				
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:							
Models of Systems Affected: E-2 Series				Modification Type: Mission Performance Enhancement				Related RDT&E PEs:						
Financial Plan <small>(*) Indicates the modification is being installed organically and no installation funds are required.</small>	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total		
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)		
Procurement														
1.1.1) E-2D Hawkeye Cockpit Tech Refresh (HECTR) A-Kit - NonOrganic <i>Installation 1 of 4</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 1.163	6 / 3.560	71 / 45.143	79 / 49.866		
1.1.2) Theater Combat ID (TCID) A-Kit - NonOrganic <i>Installation 2 of 4</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.600	6 / 1.860	71 / 49.866	79 / 52.326		
1.1.3) High Frequency (HF) Radio Obsolescence Mitigation Kits - NonOrganic <i>Installation 3 of 4</i>	- / -	- / -	24 / 4.921	24 / 4.921	- / -	24 / 4.921	2 / 0.410	- / -	- / -	- / -	- / -	50 / 10.252		
2.1.1) E-2C Tactical 4th Operator Mod Kits B-Kit - Organic ^(*)	30 / 1.514	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	30 / 1.514		
2.1.2) E-2D Hawkeye Cockpit Tech Refresh (HECTR) B-Kit - Organic ^(*)	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 10.470	6 / 32.040	62 / 396.500	70 / 439.010		
2.1.3) E-2D Theater combat Identification B-kit - Organic ^(*)	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 2.157	6 / 6.605	79 / 118.605	87 / 127.367		
2.2.1) E-2D Cooperative Engagement Capability Signal Data Processor B-Kit - NonOrganic <i>Installation 4 of 4</i>	- / -	- / -	10 / 3.312	20 / 6.757	- / -	20 / 6.757	20 / 6.892	7 / 2.460	- / -	- / -	- / -	57 / 19.421		
2.2.2) E-2C B-Kits 1 - Organic ^(*)	25 / 0.976	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	25 / 0.976		
2.2.3) E-2D B-Kits 1 - Organic ^(*)	45 / 1.789	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	45 / 1.789		
2.2.4) E-2C B-Kits 4 - Organic ^(*)	- / -	- / -	- / -	9 / 0.379	- / -	9 / 0.379	- / -	- / -	- / -	- / -	- / -	9 / 0.379		
2.2.5) E-2D B-Kits 5 - Organic ^(*)	- / -	- / -	- / -	- / -	- / -	- / -	37 / 6.842	- / -	- / -	- / -	- / -	37 / 6.842		
2.2.6) E-2D B-Kits 6 - Organic ^(*)	- / -	- / -	- / -	- / -	- / -	- / -	- / -	27 / 5.487	- / -	- / -	- / -	27 / 5.487		
2.2.7) Installation Equip N/R - Organic ^{(*) (15)}	- / -	- / -	- / 6.760	- / 7.368	- / -	- / 7.368	- / 8.031	- / 10.085	- / -	- / 41.027	- / 108.000	- / 181.271		
Subtotal: Procurement	- / 4.279	- / -	- / 14.993	- / 19.425	- / -	- / 19.425	- / 22.175	- / 18.032	- / 14.390	- / 85.092	- / 718.114	- / 896.500		
Support														
3.1) Data	- / -	- / -	- / 0.501	- / 0.511	- / -	- / 0.511	- / 1.121	- / 4.270	- / 5.340	- / 3.843	- / 7.300	- / 22.886		
3.2) ILS	- / 1.294	- / 0.015	- / 0.680	- / 0.693	- / -	- / 0.693	- / 0.707	- / 0.721	- / 0.735	- / 0.749	- / 8.006	- / 13.600		
3.3) Software Upgrades	- / 0.445	- / -	- / 0.244	- / 0.249	- / -	- / 0.249	- / 2.460	- / 6.142	- / 5.012	- / 1.422	- / 2.878	- / 18.852		
3.4) Training Equipment	- / 1.100	- / 5.300	- / 6.870	- / 7.230	- / -	- / 7.230	- / 10.499	- / 9.337	- / 6.025	- / 44.817	- / 131.437	- / 222.615		
3.5) Support Equipment ⁽¹⁶⁾	- / -	- / -	- / 0.696	- / 1.230	- / -	- / 1.230	- / 6.633	- / 6.133	- / 13.374	- / 13.518	- / 3.447	- / 45.031		
3.6) Other Support	- / 3.402	- / 1.819	- / 4.821	- / 5.272	- / -	- / 5.272	- / 5.354	- / 5.487	- / 9.842	- / 15.292	- / 37.704	- / 88.993		
Subtotal: Support	- / 6.241	- / 7.134	- / 13.812	- / 15.185	- / -	- / 15.185	- / 26.774	- / 32.090	- / 40.328	- / 79.641	- / 190.772	- / 411.977		
Installation														

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy **Date:** March 2023

Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0544 / E-2 Series	Modification Number / Title: 7 / 016-20 Technology Upgrades
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ID Code (A=Service Ready, B=Not Service Ready) : **MDAP/MAIS Code:**

Models of Systems Affected: E-2 Series	Modification Type: Mission Performance Enhancement	Related RDT&E PEs:
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Financial Plan <small>(*) Indicates the modification is being installed organically and no installation funds are required.</small>	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>
Installation 1 of 4: E-2D Hawkeye Cockpit Tech Refresh (HECTR) A-Kit	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 11.098	- / 1461.237	- / 1472.335
Installation 2 of 4: Theater Combat ID (TCID) A-Kit	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.664	- / 51.897	- / 52.561
Installation 3 of 4: High Frequency (HF) Radio Obsolescence Mitigation Kits	- / -	- / -	- / 14.590	- / 14.590	- / 0.000	- / 14.590	- / 0.383	- / -	- / -	- / -	- / 0.000	- / 9.563
Installation 4 of 4: E-2D Cooperative Engagement Capability Signal Data Processor B-Kit	- / -	- / -	- / -	- / 0.012	- / 0.000	- / 0.012	- / 0.024	- / 0.025	- / 0.009	- / -	- / 0.000	- / 0.070
<i>Subtotal: Installation</i>	- / 0.000	- / -	- / 14.590	- / 14.602	- / -	- / 14.602	- / 0.407	- / 0.025	- / 0.009	- / 11.762	- / 513.134	- / 534.529
Total												
Total Cost (Procurement + Support + Installation)	10.520	7.134	33.395	39.212	0.000	39.212	49.356	50.147	54.727	176.495	1,422.020	1,843.006

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy **Date:** March 2023

Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0544 / E-2 Series	Modification Number / Title: 7 / 016-20 Technology Upgrades
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ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Installation 1 of 4: E-2D Hawkeye Cockpit Tech Refresh (HECTR) A-Kit

Manufacturer Information

Manufacturer Name: Hawkeye Cockpit Tech Refresh (HECTR)	Manufacturer Location: Field Mod Team
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Administrative Leadtime (in Months): 6	Production Leadtime (in Months): 9
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Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates						Mar 2027	Mar 2028
Delivery Dates						Dec 2027	Dec 2028

Installation Information

Method of Implementation: Field Mod Team:: Installation Name: E-2D Hawkeye Cockpit Tech Refresh (HECTR) A-Kit

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 11.098	0 / 0.000	2 / 11.098
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	6 / 33.960	6 / 33.960
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	71 / 427.277	71 / 427.277
Total	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 11.098	79 / 472.335

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	-	77	79
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	-	77	79

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy **Date:** March 2023

Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0544 / E-2 Series	Modification Number / Title: 7 / 016-20 Technology Upgrades
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ID Code (A=Service Ready, B=Not Service Ready) : **MDAP/MAIS Code:**

Installation 2 of 4: Theater Combat ID (TCID) A-Kit

Manufacturer Information

Manufacturer Name: Theater Combat ID (TCID)	Manufacturer Location: Field Mod Team
Administrative Leadtime (in Months): 6	Production Leadtime (in Months): 12

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates						Mar 2027	Mar 2028
Delivery Dates						Mar 2028	Mar 2029

Installation Information

Method of Implementation: [none specified]:: Installation Name: Theater Combat ID (TCID) A-Kit

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.664	0 / 0.000	2 / 0.664
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	6 / 2.031	6 / 2.031
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	71 / 49.866	71 / 49.866
Total	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.664	77 / 52.561

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot			
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4					
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	77	79
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	77	79

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy **Date:** March 2023

Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0544 / E-2 Series	Modification Number / Title: 7 / 016-20 Technology Upgrades
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ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Installation 3 of 4: High Frequency (HF) Radio Obsolescence Mitigation Kits

Manufacturer Information

Manufacturer Name: High Frequency (HF) Radio	Manufacturer Location: TBD
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Administrative Leadtime (in Months): 0	Production Leadtime (in Months): 0
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Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates		Feb 2024	Feb 2025				
Delivery Dates		Feb 2025	Feb 2026				

Installation Information

Method of Implementation: [none specified]:: Installation Name: High Frequency (HF) Radio Obsolescence Mitigation Kits

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	24 / 4.590	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	24 / 4.590
FY 2024	- / -	- / -	- / -	24 / 4.590	0 / 0.000	24 / 4.590	- / -	- / -	- / -	- / -	0 / 0.000	24 / 4.590
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.383	- / -	- / -	- / -	0 / 0.000	2 / 0.383
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	24 / 4.590	24 / 4.590	0 / 0.000	24 / 4.590	2 / 0.383	- / -	- / -	- / -	0 / 0.000	50 / 9.563

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot	
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4			
In	-	-	-	-	-	-	8	8	8	-	8	8	8	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	50
Out	-	-	-	-	-	-	8	8	8	-	8	8	8	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	50

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy **Date:** March 2023

Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0544 / E-2 Series	Modification Number / Title: 7 / 016-20 Technology Upgrades
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ID Code (A=Service Ready, B=Not Service Ready) : **MDAP/MAIS Code:**

Installation 4 of 4: E-2D Cooperative Engagement Capability Signal Data Processor B-Kit

Manufacturer Information

Manufacturer Name: CEC SDP	Manufacturer Location: Field Mod Team
Administrative Leadtime (in Months): 6	Production Leadtime (in Months): 12

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates		Mar 2023	Mar 2024	Mar 2025	Mar 2026		
Delivery Dates		Mar 2024	Mar 2025	Mar 2026	Mar 2027		

Installation Information

Method of Implementation: Field Mod Team:: Installation Name: E-2D Cooperative Engagement Capability Signal Data Processor B-K

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	10 / 0.012	0 / 0.000	10 / 0.012	- / -	- / -	- / -	- / -	0 / 0.000	10 / 0.012
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	20 / 0.024	- / -	- / -	- / -	0 / 0.000	20 / 0.024
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	20 / 0.025	- / -	- / -	0 / 0.000	20 / 0.025
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	7 / 0.009	- / -	0 / 0.000	7 / 0.009
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	10 / 0.012	0 / 0.000	10 / 0.012	20 / 0.024	20 / 0.025	7 / 0.009	- / -	0 / 0.000	57 / 0.070

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	-	2	4	4	2	5	5	5	5	5	5	5	3	5	2	-	-	-	-	-	57
Out	-	-	-	-	-	-	-	-	-	-	-	2	4	4	2	5	5	5	5	5	5	5	3	5	2	-	-	-	-	-	57

Footnotes:
 (15) Non-Recurring Engineering (NRE) efforts required to finalize ECP and verification efforts for various capabilities in each year. Funding levels fluctuate due to mix and complexity of ECPs. All ECPs do not require the same level of NRE.
 (16) Support Equipment required to support kit procurement, installation, and fielding of Technology Upgrade capability.

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0544 / E-2 Series	Modification Number / Title: 8 / 018-20 Datalinks

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	66.481	35.636	23.340	22.369	0.000	22.369	25.903	7.374	0.000	0.000	0.000	181.103
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	66.481	35.636	23.340	22.369	0.000	22.369	25.903	7.374	0.000	0.000	0.000	181.103
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	66.481	35.636	23.340	22.369	0.000	22.369	25.903	7.374	0.000	0.000	0.000	181.103

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Addresses Crypto Modernization (CM) upgrades and Frequency Remapping (FR) capabilities as mandated by the National Security Agency (NSA), the Department of Transportation (DoT) and the Department of Defense (DoD). This OSIP will field the LINK 16 CM/FR capability with the integration of the Multifunctional Information Distribution System (MIDS) Joint Tactical Radio System (JTRS) with Concurrent Multi-Netting 4 (CMN-4) into the E-2 and supports the software effort to integrate application standards into the mission computer and displays. The CMN-4 capability integrates the current E-2 LINK 16 data link architecture with CM and FR with Concurrent Contention Receive and Concurrent Multi-Netting to comply with CM mandate.

Funding will also be used to integrate and field the MIDS JTRS Tactical Targeting Network Technology (TTNT) wave form. The TTNT capability integrates the current E-2 LINK 16 data link architecture with a time sensitive targeting technology in support of the Naval Integrated Fire Control concept for fleet air and missile defense.

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Exhibit P-3a, Individual Modification: PB 2024 Navy										Date: March 2023			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0544 / E-2 Series					Modification Number / Title: 8 / 018-20 Datalinks			
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: E-2 Series				Modification Type: Mission Performance Enhancements				Related RDT&E PEs:					
Financial Plan <small>(*) Indicates the modification is being installed organically and no installation funds are required.</small>	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
1.1.1) E-2C Crypto Mod A-Kit - Organic ^(*) (17)	19 / 1.133	17 / 10.410	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	36 / 11.543	
1.1.2) E-2 MIDS/JTRS Crypto Mod to TTNT Conversion A-Kit - NonOrganic <i>Installation 1 of 1</i>	- / -	10 / 5.339	10 / 5.250	14 / 7.350	- / -	14 / 7.350	14 / 7.350	- / -	- / -	- / -	- / -	48 / 25.289	
1.1.3) OSIP 018-20 A-Kit Archive - Organic ^(*)	- / 31.183	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 31.183	
2.1.1) E-2C Crypto Mod B-Kit - Organic ^(*)	20 / 3.209	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	20 / 3.209	
2.1.2) E-2D Crypto Mod CMN-4 Terminal - Organic ^(*)	13 / 3.375	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	13 / 3.375	
2.1.3) E-2D Crypto Mod High Powered Amplifier (HPA) - Organic ^(*)	30 / 7.691	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	30 / 7.691	
2.1.4) E-2 MIDS/JTRS Crypto Mod to TTNT Conversion B-Kit - Organic ^(*)	4 / 0.509	- / -	- / -	14 / 1.885	- / -	14 / 1.885	14 / 1.885	- / -	- / -	- / -	- / -	32 / 4.279	
2.1.5) E-2 MIDS/JTRS TTNT B-Kit - Organic ^(*)	7 / 1.248	6 / 1.095	10 / 1.852	14 / 2.642	- / -	14 / 2.642	14 / 2.642	- / -	- / -	- / -	- / -	51 / 9.479	
2.1.6) E-2 MIDS/JTRS TTNT CMN-4 Terminal - Organic ^(*)	7 / 2.625	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	7 / 2.625	
2.1.7) E-2 MIDS/JTRS TTNT L16 HPA - Organic ^(*)	4 / 1.019	13 / 3.435	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	17 / 4.454	
2.1.8) E-2 MIDS/JTRS TTNT THPA - Organic ^(*)	7 / 3.675	10 / 5.790	10 / 5.451	14 / 7.777	- / -	14 / 7.777	14 / 7.777	- / -	- / -	- / -	- / -	55 / 30.470	
Subtotal: Procurement	- / 55.667	- / 26.069	- / 12.553	- / 19.654	- / -	- / 19.654	- / 19.654	- / -	- / -	- / -	- / 0.000	- / 133.597	
Support													
3.1) ILS	- / -	- / 0.025	- / 0.459	- / 0.465	- / -	- / 0.465	- / 0.470	- / 0.470	- / -	- / -	- / -	- / 1.889	
3.2) Training Equipment	- / 5.487	- / 5.119	- / 5.062	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 15.668	
3.3) Support Equipment	- / 4.706	- / 0.103	- / 3.489	- / -	- / -	- / -	- / 3.488	- / 4.988	- / -	- / -	- / -	- / 16.774	
3.4) Other Support	- / 0.621	- / 4.320	- / 0.455	- / 0.363	- / -	- / 0.363	- / 0.366	- / 0.373	- / -	- / -	- / -	- / 6.498	
Subtotal: Support	- / 10.814	- / 9.567	- / 9.465	- / 0.828	- / -	- / 0.828	- / 4.324	- / 5.831	- / -	- / -	- / 0.000	- / 40.829	
Installation													
Installation 1 of 1: E-2 MIDS/JTRS Crypto Mod to TTNT Conversion A-Kit	- / -	- / -	- / 1.322	- / 1.887	- / 0.000	- / 1.887	- / 1.925	- / 1.543	- / -	- / -	- / 0.000	- / 6.677	
Subtotal: Installation	- / 0.000	- / -	- / 1.322	- / 1.887	- / -	- / 1.887	- / 1.925	- / 1.543	- / -	- / -	- / 0.000	- / 6.677	
Total													
Total Cost (Procurement + Support + Installation)	66.481	35.636	23.340	22.369	0.000	22.369	25.903	7.374	0.000	0.000	0.000	181.103	

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy **Date:** March 2023

Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0544 / E-2 Series	Modification Number / Title: 8 / 018-20 Datalinks
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ID Code (A=Service Ready, B=Not Service Ready) : **MDAP/MAIS Code:**

Installation 1 of 1: E-2 MIDS/JTRS Crypto Mod to TTNT Conversion A-Kit

Manufacturer Information

Manufacturer Name: E-2 MIDS/JTRS Crypto Mod to TTNT Conversion	Manufacturer Location: Field Mod Team
Administrative Leadtime (in Months): 6	Production Leadtime (in Months): 12

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates	Mar 2022	Mar 2023	Mar 2024	Mar 2025			
Delivery Dates	Mar 2023	Mar 2024	Mar 2025	Mar 2026			

Installation Information

Method of Implementation: Field Mod Team:: Installation Name: E-2 MIDS/JTRS Crypto Mod to TTNT Conversion A-Kit

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	7 / 1.322	3 / 0.000	0 / 0.000	3 / 0.000	- / -	- / -	- / -	- / -	0 / 0.000	10 / 1.322
FY 2023	- / -	- / -	- / -	8 / 1.887	0 / 0.000	8 / 1.887	2 / 0.000	- / -	- / -	- / -	0 / 0.000	10 / 1.887
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	14 / 1.925	- / -	- / -	- / -	0 / 0.000	14 / 1.925
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	14 / 1.543	- / -	- / -	0 / 0.000	14 / 1.543
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	7 / 1.322	11 / 1.887	0 / 0.000	11 / 1.887	16 / 1.925	14 / 1.543	- / -	- / -	0 / 0.000	48 / 6.677

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot		
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4				
In	-	-	-	-	-	-	1	3	3	3	2	3	3	2	7	7	-	-	7	7	-	-	-	-	-	-	-	-	-	-	-	-	48
Out	-	-	-	-	-	-	1	3	3	3	2	3	3	2	7	7	-	-	7	7	-	-	-	-	-	-	-	-	-	-	-	-	48

Footnotes:
(17) E-2C Crypto Mod kits will be installed at the Operational Level

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0544 / E-2 Series	Modification Number / Title: 9 / 007-21 Electronic Support Measures

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	4.363	34.666	29.011	37.094	0.000	37.094	33.532	32.500	23.000	1.250	0.000	195.416
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	4.363	34.666	29.011	37.094	0.000	37.094	33.532	32.500	23.000	1.250	0.000	195.416
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	4.363	34.666	29.011	37.094	0.000	37.094	33.532	32.500	23.000	1.250	0.000	195.416

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

E-2D Electronic Support Measures (ESM) Combat Identification (CID) upgrade integrates digital receiver and processing technology, enables E-2 multi-ship geo-location and Time Difference of Arrival (TDOA) with other sensors across Link-16 and Tactical Targeting Network Technology (TTNT), and provides a precision internal clock source to enable netted detection of advanced threat radar systems. Connectivity to Electronic Warfare (EW) netted sensors will provide multiple node, real-time, enhanced CID capabilities. The digital upgrade greatly enhances CID and battlespace awareness, and improve effectiveness of blue forces.

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy **Date:** March 2023

Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0544 / E-2 Series	Modification Number / Title: 9 / 007-21 Electronic Support Measures
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ID Code (A=Service Ready, B=Not Service Ready) : **MDAP/MAIS Code:**

Models of Systems Affected: E-2D	Modification Type: Mission Performance Enhancement	Related RDT&E PEs: 0604234N
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Financial Plan <small>(*) Indicates the modification is being installed organically and no installation funds are required.</small>	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Procurement												
1.1.1) Electronic Support Measures (ESM) A Kit NRE - Organic ^(*)	- / -	- / 32.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 32.000
1.2.1) Installation Kits N/R - Organic ^(*)	- / 2.060	- / -	- / -	- / 0.500	- / -	- / 0.500	- / 0.500	- / 0.500	- / 0.500	- / 0.250	- / -	- / 4.310
2.1.1) Electronic Support Obsolescence DMSM Kits - Organic ^(*)	- / -	- / -	12 / 20.000	20 / 30.000	- / -	20 / 30.000	20 / 30.000	20 / 30.000	14 / 21.000	- / -	- / -	86 / 131.000
Subtotal: Procurement	- / 2.060	- / 32.000	- / 20.000	- / 30.500	- / -	- / 30.500	- / 30.500	- / 30.500	- / 21.500	- / 0.250	- / 0.000	- / 167.310
Support												
3.1) Data	- / 0.250	- / -	- / 0.260	- / 0.265	- / -	- / 0.265	- / 0.270	- / 0.276	- / 0.281	- / -	- / -	- / 1.602
3.2) ILS	- / 0.550	- / -	- / 0.572	- / 0.583	- / -	- / 0.583	- / 0.595	- / 0.607	- / 0.619	- / 0.400	- / -	- / 3.926
3.3) Training Equipment	- / 1.103	- / 2.544	- / 2.960	- / 1.969	- / -	- / 1.969	- / 0.532	- / -	- / -	- / -	- / -	- / 9.108
3.4) Support Equipment	- / -	- / -	- / 2.550	- / 1.482	- / -	- / 1.482	- / -	- / -	- / -	- / -	- / -	- / 4.032
3.5) Other Support ⁽¹⁸⁾	- / 0.400	- / 0.122	- / 2.669	- / 2.295	- / -	- / 2.295	- / 1.635	- / 1.117	- / 0.600	- / 0.600	- / -	- / 9.438
Subtotal: Support	- / 2.303	- / 2.666	- / 9.011	- / 6.594	- / -	- / 6.594	- / 3.032	- / 2.000	- / 1.500	- / 1.000	- / 0.000	- / 28.106
Installation												
Subtotal: Installation	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total												
Total Cost (Procurement + Support + Installation)	4.363	34.666	29.011	37.094	0.000	37.094	33.532	32.500	23.000	1.250	0.000	195.416

Footnotes:

⁽¹⁸⁾ Other support funding required due to the government being the lead systems integrator for the retrofit effort.

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0544 / E-2 Series	Modification Number / Title: 10 / Inactive OSIPs

ID Code (A=Service Ready, B=Not Service Ready) : _____ **MDAP/MAIS Code:** _____

Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	1,536.848	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1,536.848
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	1,536.848	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1,536.848
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	1,536.848	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1,536.848

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Inactive OSIPs prior year totals.

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Exhibit P-3a, Individual Modification: PB 2024 Navy										Date: March 2023		
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0544 / E-2 Series						Modification Number / Title: 10 / Inactive OSIPs		
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:					
Models of Systems Affected: [No Model Specified]				Modification Type: TBD				Related RDT&E PEs:				
Financial Plan <small>(*) Indicates the modification is being installed organically and no installation funds are required.</small>	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>
Procurement												
1.1.1) Inactive OSIPs - Organic ^(*)	- / 1,536.848	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1,536.848
<i>Subtotal: Procurement</i>	- / 1,536.848	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 1,536.848
Installation												
<i>Subtotal: Installation</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total												
Total Cost (Procurement + Support + Installation)	1,536.848	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1,536.848

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2024 Navy **Date:** March 2023

Appropriation / Budget Activity / Budget Sub Activity: 1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft	P-1 Line Item Number / Title: 0549 / Trainer Acft Series
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	268.055	7.849	9.568	16.376	0.000	16.376	12.509	12.673	13.125	13.597	9.894	363.646
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	268.055	7.849	9.568	16.376	0.000	16.376	12.509	12.673	13.125	13.597	9.894	363.646
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	268.055	7.849	9.568	16.376	0.000	16.376	12.509	12.673	13.125	13.597	9.894	363.646

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

This line item funds modifications to a group of trainer aircraft systems which includes the T-44 and TH-57, US Navy Test Pilot School (USNTPS) aircraft, and the TH-73A.

The T-44 is a twin-engine, multi-seat turboprop aircraft produced by Hawker Beech Aircraft and is utilized to provide training for simulated operation of multi-engine training. Specifically, this aircraft provides pipeline training for the P-3, P-8, EP-3, KC-130, E-6, E-2, C-2, MV-22 and CMV-22. Current Navy inventory is 54 aircraft with service life thru 2028 with possible multiyear extensions.

The overall goal of modifications for T-44 is to modify and/or upgrade aircraft avionics and associated sub-systems to include upgrades to avionic systems for Federal Aviation Administration (FAA) compliance. Efforts also include, Avionics modifications to address safety, reliability, maintainability, obsolescence, and Diminishing Manufacturing Sources and Material Shortages (DMSMS) requirements. Modifications, particularly to avionic systems, may also be driven by new Cyber Security requirements.

The TH-57 is a single engine, multi-seat rotary wing aircraft utilized to provide rotary wing training. Current Navy TH-57 inventory is 112 aircraft. The airframe and dynamic components can be sustained indefinitely (although at higher costs as time goes on).

The overall goal of modifications for TH-57 is implement safety updates as well as required upgrades to avionic systems for FAA compliance. Efforts also include, modifications to airframe, avionics, and sub-systems, necessary to address safety, reliability, maintainability, obsolescence, and Diminishing Manufacturing Source and Material Shortages (DMSMS) requirements. Modifications, particularly to avionic systems, may also be driven by new Cyber Security requirements.

Test Pilot School aircraft support training of test pilots, Naval Flight Officers (NFOs), and Test Engineers. TPS aircraft include ten T-38, five UH-72, five OH-58, two U-6, one U-1, two X-26, two UV-18A and one C-26. Efforts include modifications to airframe, avionics, and sub-systems, necessary to address safety, reliability, maintainability, obsolescence, capability, and Diminishing Manufacturing Sources and Material Shortages (DMSMS) requirements.

The TH-73A is a single engine, multi-seat rotary wing aircraft. The TH-73A replaces the TH-57 to provide rotary wing training to the fleet. Modifications address correction of deficiency issues that arise on aircraft accepted off the production line.

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2024 Navy **Date:** March 2023

Appropriation / Budget Activity / Budget Sub Activity:
1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft

P-1 Line Item Number / Title:
0549 / Trainer Acft Series

ID Code (A=Service Ready, B=Not Service Ready): A **Program Elements for Code B Items:** N/A **Other Related Program Elements:** N/A

Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	1 / OSIP 005-04 - T44 AVIONICS OBSOLESCENCE (Safety)				- / 131.023	- / 1.533	- / 1.492	- / 1.546	- / 0.000	- / 1.546
P-3a	2 / OSIP 006-07 TH-57 SAFETY UPGRADE (Conversion/Safety)				- / 80.259	- / 4.310	- / 0.771	- / 0.120	- / 0.000	- / 0.120
P-3a	3 / OSIP 015-16 TPS Aircraft (Safety)				- / 3.729	- / 2.006	- / 1.930	- / 9.507	- / 0.000	- / 9.507
P-3a	4 / OSIP 006-23 TH-73A CORRECTION OF DEFICIENCIES (Correction of Deficiencies)				- / 0.000	- / 0.000	- / 5.375	- / 5.203	- / 0.000	- / 5.203
P-3a	5 / Inactive OSIPs (TBD)				- / 53.044	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000
P-40	Total Gross/Weapon System Cost				- / 268.055	- / 7.849	- / 9.568	- / 16.376	- / 0.000	- / 16.376

Exhibits Schedule					FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	1 / OSIP 005-04 - T44 AVIONICS OBSOLESCENCE (Safety)				- / 0.130	- / 0.130	- / 0.000	- / 0.000	- / 0.000	- / 135.854
P-3a	2 / OSIP 006-07 TH-57 SAFETY UPGRADE (Conversion/Safety)				- / 0.120	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 85.580
P-3a	3 / OSIP 015-16 TPS Aircraft (Safety)				- / 8.508	- / 4.864	- / 4.338	- / 4.119	- / 9.894	- / 48.895
P-3a	4 / OSIP 006-23 TH-73A CORRECTION OF DEFICIENCIES (Correction of Deficiencies)				- / 3.751	- / 7.679	- / 8.787	- / 9.478	- / 0.000	- / 40.273
P-3a	5 / Inactive OSIPs (TBD)				- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 53.044
P-40	Total Gross/Weapon System Cost				- / 12.509	- / 12.673	- / 13.125	- / 13.597	- / 9.894	- / 363.646

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

Justification:
OSIP 005-04 FY 2024 request incorporates corresponding schedule updates and modification efforts focused on T-44 avionics obsolescence.

OSIP 006-07 FY 2024 request provides funding for emerging Avionics Obsolescence efforts.

OSIP 015-16 FY 2024 request continues the T-38 Wing Upgrade Program, Talon Repair, Improvement, and Modification (TRIM) Program, and to request new funding for the T-38 Electronic Engine Display/ Multi Function Display (EED/MFD) to maintain concurrency with the USAF configuration. FY 2024 requests funding for obsolescence issues by providing for C-26A Radio upgrades and UH-72A Forward Looking Infrared (FLIR). Request also provides for UH-72A Augmented Reality Helmet Mounted Display (ARHMD) which addresses aircrew safety issues.

OSIP 006-23 FY 2024 request addresses correction of deficiencies modifications for the TH-73A program.

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0549 / Trainer Acft Series	Modification Number / Title: 1 / OSIP 005-04 - T44 AVIONICS OBSOLESCENCE

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	131.023	1.533	1.492	1.546	0.000	1.546	0.130	0.130	0.000	0.000	0.000	135.854
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	131.023	1.533	1.492	1.546	0.000	1.546	0.130	0.130	0.000	0.000	0.000	135.854
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	131.023	1.533	1.492	1.546	0.000	1.546	0.130	0.130	0.000	0.000	0.000	135.854

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

This Operational Safety Improvement Program (OSIP) funds modifications to T-44 aircraft to provide required Avionics upgrades and address Avionics obsolescence.

This OSIP includes efforts that address, avionics and supporting sub-system modifications and/or upgrades to address safety, reliability, maintainability, obsolescence, and Diminishing Manufacturing Sources and Material Shortages (DMSMS) requirements. Modifications may also be driven by new cyber security requirements.

This OSIP also funds upgrades to avionic systems necessary for compliance with Federal Aviation Administration (FAA) 28 May 2010 release DoT/FAA, 14 CFR Part 91: Automated Dependent Surveillance Broadcast (ADS-B) Out performance requirements to support Air Traffic Control (ATC) service final rule. This mandate stipulates that all aircraft required to have unrestricted access to operate in Classes A, B and C airspace; certain Class E airspace, and other specified airspace requiring ADS-B Out, must be in compliance with this regulation by January 1, 2020.

Current Engineering Change Proposals (ECPs) include: ADS-B Out; Avionics Cooling; and Avionics Obsolescence/DMSMS.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: Continue incorporation of engineering change proposals.

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy										Date: March 2023			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0549 / Trainer Acft Series					Modification Number / Title: 1 / OSIP 005-04 - T44 AVIONICS OBSOLESCENCE			
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: T-44				Modification Type: Safety				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
Modification Item 1 of 2: Installation Kits													
A Kits													
Recurring													
1.1.1) Archived A-Kit ECPs - Organic	105 / 34.079	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	105 / 34.079	
Subtotal: Recurring	- / 34.079	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 34.079	
Non-Recurring													
1.2.1) Installation Kits Non-recurring - Organic	3 / 5.855	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3 / 5.855	
Subtotal: Non-Recurring	- / 5.855	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 5.855	
Subtotal: Installation Kits	108 / 39.934	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	108 / 39.934	
Modification Item 2 of 2: Installation Equipment													
B Kits													
Recurring													
2.1.1) Avionics Obsolescence/DMSMS ECPs - Organic	- / -	- / -	- / -	54 / 0.900	- / -	54 / 0.900	- / -	- / -	- / -	- / -	- / -	54 / 0.900	
2.1.2) Archived B-Kit ECPs - Organic	116 / 58.053	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	116 / 58.053	
Subtotal: Recurring	- / 58.053	- / -	- / -	- / 0.900	- / -	- / 0.900	- / -	- / -	- / -	- / -	- / 0.000	- / 58.953	
Non-Recurring													
2.2.1) Avionics Obsolescence/DMSMS ECPs NRE - Organic ⁽¹⁾	- / 2.605	- / 1.420	- / 1.330	- / 0.506	- / -	- / 0.506	- / 0.130	- / 0.130	- / -	- / -	- / -	- / 6.121	
Subtotal: Non-Recurring	- / 2.605	- / 1.420	- / 1.330	- / 0.506	- / -	- / 0.506	- / 0.130	- / 0.130	- / -	- / -	- / 0.000	- / 6.121	
Subtotal: Installation Equipment	116 / 60.658	- / 1.420	- / 1.330	54 / 1.406	- / -	54 / 1.406	- / 0.130	- / 0.130	- / -	- / -	- / -	170 / 65.074	
Subtotal: Procurement, All Modification Items	- / 100.592	- / 1.420	- / 1.330	- / 1.406	- / -	- / 1.406	- / 0.130	- / 0.130	- / -	- / -	- / 0.000	- / 105.008	
Support (All Modification Items)													
3.2) DATA - Publications	- / 0.392	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.392	
3.3) Training Equipment	14 / 22.707	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	14 / 22.707	
3.5) Other Support	- / 17.332	- / 0.113	- / 0.162	- / 0.140	- / -	- / 0.140	- / -	- / -	- / -	- / -	- / -	- / 17.747	
Subtotal: Support	- / 30.431	- / 0.113	- / 0.162	- / 0.140	- / -	- / 0.140	- / -	- / -	- / -	- / -	- / 0.000	- / 30.846	
Installation													
Subtotal: Installation	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
Total													

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0549 / Trainer Acft Series	Modification Number / Title: 1 / OSIP 005-04 - T44 AVIONICS OBSOLESCENCE

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Models of Systems Affected: T-44	Modification Type: Safety	Related RDT&E PEs:
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Financial Plan	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Total Cost (Procurement + Support + Installation)	131.023	1.533	1.492	1.546	0.000	1.546	0.130	0.130	0.000	0.000	0.000	135.854

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0549 / Trainer Acft Series	Modification Number / Title: 1 / OSIP 005-04 - T44 AVIONICS OBSOLESCENCE
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:
Modification Item 1 of 2: Installation Kits		

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0549 / Trainer Acft Series	Modification Number / Title: 1 / OSIP 005-04 - T44 AVIONICS OBSOLESCENCE
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:
Modification Item 2 of 2: Installation Equipment		

Footnotes:
(1) 2.2.1) Avionics Obsolescence/DMSMS ECPs NRE: This cost element supports the NRE through FY 2026, funding various avionics ECPs and obsolescence issues resulting from an aging aircraft.

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0549 / Trainer Acft Series	Modification Number / Title: 2 / OSIP 006-07 TH-57 SAFETY UPGRADE

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	80.259	4.310	0.771	0.120	0.000	0.120	0.120	0.000	0.000	0.000	0.000	85.580
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	80.259	4.310	0.771	0.120	0.000	0.120	0.120	0.000	0.000	0.000	0.000	85.580
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	80.259	4.310	0.771	0.120	0.000	0.120	0.120	0.000	0.000	0.000	0.000	85.580

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

This Operational Safety Improvement Program (OSIP) funds modifications to TH-57 aircraft to implement safety updates as well as required upgrades to avionics systems for Federal Aviation Administration (FAA) compliance.

This OSIP includes efforts that address modifications to address safety, reliability, maintainability, obsolescence, and Diminishing Manufacturing Sources and Material Shortages (DMSMS). requirements. Modifications include Airframe, sub-systems, and avionics systems. Modifications, particularly to avionics systems, may also be driven by new cyber security requirements.

Current Engineering Change Proposals (ECPs) include Avionics Obsolescence.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: Continue incorporation of engineering change proposals.

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy										Date: March 2023			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0549 / Trainer Acft Series					Modification Number / Title: 2 / OSIP 006-07 TH-57 SAFETY UPGRADE			
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: TH-57B/C				Modification Type: Conversion/Safety				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
<i>Modification Item 1 of 1:</i> OSIP 006-07 TH-57 SAFETY UPGRADE													
A Kits													
Recurring													
1.1.1) Audio Control Panel Replacement - NonOrganic	25 / 0.277	48 / 0.341	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	73 / 0.618	
1.1.2) Windscreen Replacement - NonOrganic ⁽²⁾	2 / 0.000	1 / 0.000	10 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	13 / 0.000	
1.1.3) Map Pocket Replacement - NonOrganic	58 / 0.009	56 / 0.004	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	114 / 0.013	
1.1.4) Archived ECP A Kits - Organic ⁽³⁾	127 / 0.906	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	127 / 0.906	
<i>Subtotal: Recurring</i>	- / 1.192	- / 0.345	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 1.537	
Non-Recurring													
1.2.1) Installation Kits Non-recurring - Organic	8 / 3.707	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	8 / 3.707	
<i>Subtotal: Non-Recurring</i>	- / 3.707	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 3.707	
B Kits													
Recurring													
2.1.1) Avionics Obsolescence (B kits) - Organic ⁽⁴⁾	- / 0.020	- / -	- / -	20 / 0.050	- / -	20 / 0.050	20 / 0.050	- / -	- / -	- / -	- / -	40 / 0.120	
2.1.2) Archived ECP B-kits - Organic ⁽⁵⁾	- / 13.978	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 13.978	
<i>Subtotal: Recurring</i>	- / 13.998	- / -	- / -	- / 0.050	- / -	- / 0.050	- / 0.050	- / -	- / -	- / -	- / 0.000	- / 14.098	
Non-Recurring													
2.2.1) Avionics Obsolescence NRE - Organic	- / 6.422	- / 1.646	- / 0.050	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 8.118	
<i>Subtotal: Non-Recurring</i>	- / 6.422	- / 1.646	- / 0.050	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 8.118	
<i>Subtotal: OSIP 006-07 TH-57 SAFETY UPGRADE</i>	220 / 25.319	105 / 1.991	10 / 0.050	20 / 0.050	- / -	20 / 0.050	20 / 0.050	- / -	- / -	- / -	- / -	375 / 27.460	
<i>Subtotal: Procurement, All Modification Items</i>	- / 25.319	- / 1.991	- / 0.050	- / 0.050	- / -	- / 0.050	- / 0.050	- / -	- / -	- / -	- / 0.000	- / 27.460	
Support (All Modification Items)													
3.1) DATA - Publications	- / 0.031	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.031	
3.2) Training Equipment - Trainer OFT	- / 15.745	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 15.745	
3.4) Other Support	- / 139.095	- / 2.153	- / 0.293	- / 0.070	- / -	- / 0.070	- / 0.070	- / -	- / -	- / -	- / -	- / 141.681	
<i>Subtotal: Support</i>	- / 154.871	- / 2.153	- / 0.293	- / 0.070	- / -	- / 0.070	- / 0.070	- / -	- / -	- / -	- / 0.000	- / 157.457	
Installation													

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0549 / Trainer Acft Series	Modification Number / Title: 2 / OSIP 006-07 TH-57 SAFETY UPGRADE

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Models of Systems Affected: TH-57B/C	Modification Type: Conversion/Safety	Related RDT&E PEs:
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Financial Plan	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Modification Item 1 of 1: OSIP 006-07 TH-57 SAFETY UPGRADE	- / 0.069	- / 0.166	- / 0.428	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.663
<i>Subtotal: Installation</i>	- / 0.069	- / 0.166	- / 0.428	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 0.663
Total												
Total Cost (Procurement + Support + Installation)	80.259	4.310	0.771	0.120	0.000	0.120	0.120	0.000	0.000	0.000	0.000	85.580

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0549 / Trainer Acft Series	Modification Number / Title: 2 / OSIP 006-07 TH-57 SAFETY UPGRADE

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Modification Item 1 of 1: OSIP 006-07 TH-57 SAFETY UPGRADE

Manufacturer Information

Manufacturer Name: Vertex Aerospace, LLC ⁽⁶⁾	Manufacturer Location: Madison, MS
Administrative Leadtime (in Months): 10	Production Leadtime (in Months): 1

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates	Jul 2022						
Delivery Dates	Aug 2022						

Installation Information

Method of Implementation: Contractor Logistics Support Provider:: Installation Name: OSIP 006-07 TH-57 SAFETY UPGRADE

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	50 / 0.069	35 / 0.110	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	85 / 0.179
FY 2022	- / -	62 / 0.056	43 / 0.251	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	105 / 0.307
FY 2023	- / -	- / -	10 / 0.177	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	10 / 0.177
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	50 / 0.069	97 / 0.166	53 / 0.428	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	200 / 0.663

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	50	17	19	30	31	14	19	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	200
Out	50	17	19	30	31	14	19	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	200

Method of Implementation (Organic): Archived ECP A Kits - Not Installed	Installation Quantity: 127
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Method of Implementation (Organic): Installation Kits Non-recurring	Installation Quantity: 8
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UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0549 / Trainer Acft Series	Modification Number / Title: 2 / OSIP 006-07 TH-57 SAFETY UPGRADE
ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:	

Modification Item 1 of 1: OSIP 006-07 TH-57 SAFETY UPGRADE

Installation Information

Method of Implementation (Organic): Avionics Obsolescence (B kits)	Installation Quantity: 40
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Footnotes:

(2) 1.1.2) Windscreen Replacement modification kit installations funded are by the TH-57 program. The kits were procured at no cost to the program.

(3) 1.1.4) NVG Cockpit and Starter Generator Harness Replacement ECPs archived.

(4) 2.1.1) Increased Diminishing Manufacturing Sources and Material Shortages (DMSMS) for the 35+ year old TH-57 requires resources to develop replacements for the obsolete avionics components in the aircraft.

(5) 2.1.1) NVG Cockpit ECP archived.

(6) Installation Modification Item 1 of 1: Items that make up this installation group have various manufacturer as well as various Administrative Leadtime and Production Leadtime. All installations are made by the TH-57 Contractor Logistics Support Provider.

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0549 / Trainer Acft Series	Modification Number / Title: 3 / OSIP 015-16 TPS Aircraft

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	3.729	2.006	1.930	9.507	0.000	9.507	8.508	4.864	4.338	4.119	9.894	48.895
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	3.729	2.006	1.930	9.507	0.000	9.507	8.508	4.864	4.338	4.119	9.894	48.895
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	3.729	2.006	1.930	9.507	0.000	9.507	8.508	4.864	4.338	4.119	9.894	48.895

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Test Pilot School (TPS) aircraft support training of test pilots, Naval Flight Officers (NFOs), and Test Engineers. TPS aircraft include T-38, UH-72, OH-58, U-6, U-1, X-26, UV-18A and C-26. Efforts include modifications to airframe, avionics, and sub-systems, necessary to address safety, reliability, maintainability, obsolescence, capability, and Diminishing Manufacturing Sources and Material Shortages (DMSMS) requirements.

Funds will be utilized to manage, process, and incorporate Engineering Change Proposals (ECPs) and implement changes to sustain and improve TPS aircraft readiness including safety, mission availability, structural integrity, capability, and component (avionics/systems) reliability, maintainability, and obsolescence conditions.

Current initiatives include Talon Repair, Improvement, and Modification Program (TRIM), and the T-38 Wing Upgrade Program. The T-38 Wing Upgrade program will result in the T-38C -29 wings being upgraded to the new configuration -33 wing. This modification will maintain concurrency with the USAF configuration, significantly reduce support costs, and enable the aircraft to safely operate until their planned FY35 divestiture. The TRIM Program will incorporate a USAF SLEP solution that will address sustainment and obsolescence issues on the T-38. The resulting modifications are required to maintain concurrency with the USAF configuration, significantly reduce support costs, and enable the aircraft to safely operate until their planned FY35 divestiture. The T-38 Electronic Engine Display/ Multi Function Display (EED/MFD) will increase aircrew situational awareness and aircraft availability by eliminating the obsolescence issues while maintaining concurrency with the USAF configuration. The C-26A Radio upgrades Cost Element provides for COTS radio solution to address current maintainability issues with current system. The UH-72A Forward Looking Infrared (FLIR) upgrade will improve training outcomes while minimizing any reduction to the operational availability. The UH-72A Augmented Reality Helmet Mounted Display (ARHMD) will increase aircrew safety by improving operational and situational awareness through the use of flight critical and navigational information.

DEVELOPMENTAL STATUS/MAJOR DEVELOPMENT MILESTONES: The T-38 Wing Upgrade Program successfully began in FY 2021. The TRIM program began in FY 2022.

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy										Date: March 2023			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0549 / Trainer Acft Series					Modification Number / Title: 3 / OSIP 015-16 TPS Aircraft			
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: [No Model Specified]				Modification Type: Safety				Related RDT&E PEs:					
Financial Plan <small>(*) Indicates the modification is being installed organically and no installation funds are required.</small>	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total	
	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	
Procurement													
1.1.1) Trim A Kits - NonOrganic <i>Installation 1 of 2</i>	- / -	1 / 0.185	2 / 0.460	2 / 0.460	- / -	2 / 0.460	2 / 0.460	2 / 0.460	1 / 0.230	- / -	- / -	10 / 2.255	
1.1.2) Wings A Kit - Organic ^(*)	1 / 1.102	1 / 1.108	1 / 1.158	1 / 1.187	- / -	1 / 1.187	1 / 1.217	1 / 1.247	1 / 1.279	1 / 1.279	2 / 3.067	10 / 12.644	
1.1.3) Wing Tip A Kits - Organic ^(*)	1 / 0.067	1 / 0.067	1 / 0.067	1 / 0.067	- / -	1 / 0.067	1 / 0.067	1 / 0.067	1 / 0.067	1 / 0.067	2 / 0.134	10 / 0.670	
1.1.4) Auto Pilot C-26 A Kits - Organic ^(*)	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.900	- / -	- / -	- / -	- / -	1 / 0.900	
1.1.5) Radio C-26 A Kits - Organic ^{(*) (7)}	- / -	- / -	- / -	4 / 0.400	- / -	4 / 0.400	- / -	- / -	- / -	- / -	- / -	4 / 0.400	
1.1.6) Augmented Reality Helmet Display - Organic ^{(*) (8)}	- / -	- / -	- / -	2 / 1.181	- / -	2 / 1.181	2 / 1.200	- / -	- / -	- / -	- / -	4 / 2.381	
1.1.7) MX-15 Forward Looking Infrared - NonOrganic ⁽⁹⁾ <i>Installation 2 of 2</i>	- / -	- / -	- / -	1 / 2.125	- / -	1 / 2.125	1 / 2.200	- / -	- / -	- / -	- / -	2 / 4.325	
1.1.8) Archived A-Kits - Organic ^(*)	10 / 0.107	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	10 / 0.107	
2.1.1) T-38 EED/MFD Upgrade B Kits - Organic ^{(*) (10)}	- / -	- / -	- / -	10 / 2.250	- / -	10 / 2.250	- / -	- / -	- / -	- / -	- / -	10 / 2.250	
2.1.2) Archive B-Kits - Organic ^(*)	- / 2.293	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.293	
2.2.1) Trim NRE - Organic ^(*)	- / -	- / 0.086	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.086	
Subtotal: Procurement	- / 3.569	- / 1.446	- / 1.685	- / 7.670	- / -	- / 7.670	- / 6.044	- / 1.774	- / 1.576	- / 1.346	- / 3.201	- / 28.311	
Support													
3.1) Other Support ⁽¹¹⁾	- / 0.160	- / 0.560	- / 0.245	- / 1.837	- / -	- / 1.837	- / 1.048	- / 0.527	- / 0.532	- / 0.543	- / 1.150	- / 6.602	
Subtotal: Support	- / 0.160	- / 0.560	- / 0.245	- / 1.837	- / -	- / 1.837	- / 1.048	- / 0.527	- / 0.532	- / 0.543	- / 1.150	- / 6.602	
Installation													
Installation 1 of 2: Trim A Kits	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.083	- / 2.230	- / 2.230	- / 2.230	- / 5.543	- / 13.316	
Installation 2 of 2: MX-15 Forward Looking Infrared	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.333	- / 0.333	- / -	- / -	- / 0.000	- / 0.666	
Subtotal: Installation	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / 1.416	- / 2.563	- / 2.230	- / 2.230	- / 5.543	- / 13.982	
Total													
Total Cost (Procurement + Support + Installation)	3.729	2.006	1.930	9.507	0.000	9.507	8.508	4.864	4.338	4.119	9.894	48.895	

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy **Date:** March 2023

Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0549 / Trainer Acft Series	Modification Number / Title: 3 / OSIP 015-16 TPS Aircraft
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ID Code (A=Service Ready, B=Not Service Ready) : **MDAP/MAIS Code:**

Installation 1 of 2: Trim A Kits

Manufacturer Information

Manufacturer Name: BOEING Trim A Kits Manufacturer Location: ST. LOUIS, MO

Administrative Leadtime (in Months): 2 Production Leadtime (in Months): 42

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates	Nov 2021	Nov 2022	Nov 2023	Nov 2024	Nov 2025	Nov 2026	
Delivery Dates	Apr 2025	Apr 2026	Apr 2027	Apr 2028	Apr 2029	Apr 2030	

Installation Information

Method of Implementation: [none specified]:: Installation Name: Trim A Kits

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	1 / 1.083	- / -	- / -	- / -	0 / 0.000	1 / 1.083
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 2.230	- / -	- / -	0 / 0.000	2 / 2.230
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 2.230	- / -	0 / 0.000	2 / 2.230
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 2.230	0 / 2.230	2 / 4.460
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 2.230	2 / 2.230
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 1.083	1 / 1.083
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	- / -	- / -	- / -	1 / 1.083	2 / 2.230	2 / 2.230	2 / 2.230	3 / 5.543	10 / 13.316

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	-	1	-	1	-	1	-	1	-	1	-	3	10
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	-	1	-	1	-	1	-	1	-	4	10

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy **Date:** March 2023

Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0549 / Trainer Acft Series	Modification Number / Title: 3 / OSIP 015-16 TPS Aircraft
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ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Installation 2 of 2: MX-15 Forward Looking Infrared

Manufacturer Information

Manufacturer Name: TBD - MX15	Manufacturer Location: TBD
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Administrative Leadtime (in Months): 2	Production Leadtime (in Months): 12
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Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates			Nov 2023	Nov 2024			
Delivery Dates			Nov 2024	Nov 2025			

Installation Information

Method of Implementation: [none specified]:: Installation Name: MX-15 Forward Looking Infrared

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.333	- / -	- / -	- / -	0 / 0.000	1 / 0.333
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.333	- / -	- / -	0 / 0.000	1 / 0.333
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.333	1 / 0.333	- / -	- / -	0 / 0.000	2 / 0.666

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot				
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4						
In	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Footnotes:
⁽⁷⁾ 1.1.5) Cost Element provides for COTS radio solution to address current maintainability issues with current system on the C-26A. Installation will be performed at the O-Level.
⁽⁸⁾ 1.1.6) Cost Element provides for the procurement of the Augmented Reality Helmet Display which will increase aircrew safety by improving operational and situational awareness through use of helmet displayed flight critical and navigational information. Installation will be performed by a field team.

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0549 / Trainer Acft Series	Modification Number / Title: 3 / OSIP 015-16 TPS Aircraft
ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:	
<p>⁽⁹⁾ 1.1.7) Cost Element provides for the procurement of the MX-15 Forward Looking Infrared (FLIR) on the UH-72A. This upgrade will allow for improved training outcomes while minimizing any reduction to the operation availability.</p> <p>⁽¹⁰⁾ 2.1.1) Cost Element provides for the replacement of obsolete EED/MFD displays in the 10 USN Test Pilot School T-38's. Upgraded EED/MFD displays will increase aircraft availability by eliminating the obsolescence issues currently impacting the training syllabus at the USNTPS while maintaining platform common configuration across the USAF/USN enterprise. Installation will be performed at the O-Level.</p> <p>⁽¹¹⁾ 3.1) Other Support provides for engineering, logistics, program management, acquisition, Fleet Support Team at FRCSE, configuration/documentation management, and test support efforts required to incorporate the modifications into the Talon Repair, Improvement, and Modification (TRIM) program, Radio C-26A, Augmented Reality Helmet Display, MX-15 FLIR, and T-38 EED/MFD Upgrades.</p>		

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0549 / Trainer Acft Series	Modification Number / Title: 4 / OSIP 006-23 TH-73A CORRECTION OF DEFICIENCIES

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	0.000	0.000	5.375	5.203	0.000	5.203	3.751	7.679	8.787	9.478	0.000	40.273
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	0.000	0.000	5.375	5.203	0.000	5.203	3.751	7.679	8.787	9.478	0.000	40.273
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	0.000	0.000	5.375	5.203	0.000	5.203	3.751	7.679	8.787	9.478	0.000	40.273

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

This Operational Safety Improvement Program (OSIP) funds modifications to TH-73A aircraft to implement correction of deficiencies updates.

Engineering Change Proposals (ECPs) include Human Machine Interface (HMI) Deficiencies retrofit, as well as emergent ECPs addressing correction of deficiency issues as they arise.

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Exhibit P-3a, Individual Modification: PB 2024 Navy										Date: March 2023			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0549 / Trainer Acft Series					Modification Number / Title: 4 / OSIP 006-23 TH-73A CORRECTION OF DEFICIENCIES			
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: TH-73A				Modification Type: Correction of Deficiencies				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
<i>Modification Item 1 of 1:</i> OSIP 006-23 TH-73A CORRECTION OF DEFICIENCIES													
B Kits													
Recurring													
2.1.1) HMI Deficiencies Modification Kits - NonOrganic (12)	- / -	- / -	34 / 1.768	34 / 1.768	- / -	34 / 1.768	- / -	- / -	- / -	- / -	- / -	68 / 3.536	
2.1.2) Correction of Deficiencies ECPs - Organic	- / -	- / -	- / -	4 / 0.080	- / -	4 / 0.080	42 / 0.840	42 / 0.840	42 / 0.840	42 / 0.840	- / -	172 / 3.440	
<i>Subtotal: Recurring</i>	- / 0.000	- / -	- / 1.768	- / 1.848	- / -	- / 1.848	- / 0.840	- / 0.840	- / 0.840	- / 0.840	- / 0.000	- / 6.976	
Non-Recurring													
2.2.1) Correction of Deficiencies NRE - Organic ⁽¹³⁾	- / -	- / -	- / 2.627	- / 0.982	- / -	- / 0.982	- / 0.547	- / 6.124	- / 7.215	- / 7.876	- / -	- / 25.371	
<i>Subtotal: Non-Recurring</i>	- / 0.000	- / -	- / 2.627	- / 0.982	- / -	- / 0.982	- / 0.547	- / 6.124	- / 7.215	- / 7.876	- / 0.000	- / 25.371	
<i>Subtotal: OSIP 006-23 TH-73A CORRECTION OF DEFICIENCIES</i>	- / -	- / -	34 / 4.395	38 / 2.830	- / -	38 / 2.830	42 / 1.387	42 / 6.964	42 / 8.055	42 / 8.716	- / -	240 / 32.347	
<i>Subtotal: Procurement, All Modification Items</i>	- / 0.000	- / -	- / 4.395	- / 2.830	- / -	- / 2.830	- / 1.387	- / 6.964	- / 8.055	- / 8.716	- / 0.000	- / 32.347	
Support (All Modification Items)													
3.1) Data - Publications	- / -	- / -	- / 0.100	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.100	
3.2) Training Equipment	- / -	- / -	- / 0.095	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.095	
3.3) Other Support	- / -	- / -	- / 0.785	- / 0.741	- / -	- / 0.741	- / 0.732	- / 0.715	- / 0.732	- / 0.762	- / -	- / 4.467	
<i>Subtotal: Support</i>	- / 0.000	- / -	- / 0.980	- / 0.741	- / -	- / 0.741	- / 0.732	- / 0.715	- / 0.732	- / 0.762	- / 0.000	- / 4.662	
Installation													
<i>Modification Item 1 of 1:</i> OSIP 006-23 TH-73A CORRECTION OF DEFICIENCIES	- / 0.000	- / 0.000	- / 0.000	- / 1.632	- / 0.000	- / 1.632	- / 1.632	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 3.264	
<i>Subtotal: Installation</i>	- / 0.000	- / -	- / -	- / 1.632	- / -	- / 1.632	- / 1.632	- / -	- / -	- / -	- / 0.000	- / 3.264	
Total													
Total Cost (Procurement + Support + Installation)	0.000	0.000	5.375	5.203	0.000	5.203	3.751	7.679	8.787	9.478	0.000	40.273	

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0549 / Trainer Acft Series	Modification Number / Title: 4 / OSIP 006-23 TH-73A CORRECTION OF DEFICIENCIES

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Modification Item 1 of 1: OSIP 006-23 TH-73A CORRECTION OF DEFICIENCIES

Manufacturer Information

Manufacturer Name: AgustaWestland (Leonardo)	Manufacturer Location: Philidelphia, PA
Administrative Leadtime (in Months): 2	Production Leadtime (in Months): 12

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates		Nov 2022	Nov 2023				
Delivery Dates		Oct 2023	Oct 2024				

Installation Information

Method of Implementation: [none specified]:: Installation Name: HMI Deficiencies Modification Kits

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	34 / 1.632	0 / 0.000	34 / 1.632	- / -	- / -	- / -	- / -	0 / 0.000	34 / 1.632
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	34 / 1.632	- / -	- / -	- / -	0 / 0.000	34 / 1.632
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	34 / 1.632	0 / 0.000	34 / 1.632	34 / 1.632	- / -	- / -	- / -	0 / 0.000	68 / 3.264

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot	
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4			
In	-	-	-	-	-	-	-	-	-	8	9	8	9	8	9	8	9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	68
Out	-	-	-	-	-	-	-	-	-	8	9	8	9	8	9	8	9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	68

Method of Implementation (Organic): Correction of Deficiencies ECPs **Installation Quantity:** 172

Footnotes:

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0549 / Trainer Acft Series	Modification Number / Title: 4 / OSIP 006-23 TH-73A CORRECTION OF DEFICIENCIES

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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⁽¹²⁾ 2.1.1) Human Machine Interface (HMI) Deficiencies retrofit modification will be applied to Lots 1 and 2 (68 total). Lots 3 and 4 HMI Deficiencies modification will be completed on the production line.

⁽¹³⁾ 2.2.1) Increase in FY 2026 and FY 2027 due to ramp up of Correction of Deficiencies ECPs after delivery of the final production lot of the TH-73A.

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Exhibit P-3a, Individual Modification: PB 2024 Navy	Date: March 2023
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Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0549 / Trainer Acft Series	Modification Number / Title: 5 / Inactive OSIPs
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ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	53.044	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	53.044
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) <i>(\$ in Millions)</i>	53.044	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	53.044
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	53.044	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	53.044

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Dollars)</i>	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Inactive OSIPs prior year totals.

[Inactive OSIPs] Includes TH-57 Cockpit Camera Mounts, ADS-B Val/Ver, and Kapton Wiring NRE

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Exhibit P-3a, Individual Modification: PB 2024 Navy										Date: March 2023		
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0549 / Trainer Acft Series						Modification Number / Title: 5 / Inactive OSIPs		
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:					
Models of Systems Affected: [No Model Specified]				Modification Type: TBD				Related RDT&E PEs:				
Financial Plan <small>(*) Indicates the modification is being installed organically and no installation funds are required.</small>	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>
Procurement												
1.1.1) Inactive OSIPs - Organic ^(*)	- / 53.044	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 53.044
<i>Subtotal: Procurement</i>	- / 53.044	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 53.044
Installation												
<i>Subtotal: Installation</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total												
Total Cost (Procurement + Support + Installation)	53.044	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	53.044

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Exhibit P-40, Budget Line Item Justification: PB 2024 Navy **Date:** March 2023

Appropriation / Budget Activity / Budget Sub Activity: 1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft	P-1 Line Item Number / Title: 0556 / C-2A
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	528.573	2.843	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-	531.416
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	528.573	2.843	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-	531.416
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	528.573	2.843	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-	531.416

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The C-2A(R) Greyhound is a high wing monoplane, twin engine turbo-prop aircraft capable of operating from both a shore base and all operational United States Navy aircraft carrier classes. The mission of the C-2A(R) is to provide rapid response Carrier Onboard Delivery of fleet essential supplies, repair parts, and personnel to sustain at sea operations of deployed battle groups. In addition, the C-2A(R) provides airdrop delivery and mobilization support for special operations forces from land bases and carriers.

The goal of the Critical Components Operational Safety Improvement Program (OSIP) (11-07) is to continue procurement efforts for multiple modifications. Critical Components are composed of Communication Avionics and Radio Upgrades, Engine Power & Propulsion, Ejector Valve, Hydraulics, and Transducer Engineering Change Proposals. The C-2 Critical Brake Upgrade OSIP (04-16) provides funding for air vehicle modifications to improve operational ground controllability of C-2A aircraft. The Structural Enhancements OSIP (14-17) targets improvements to structural integrity. These improvements are a vital requirement for C-2A(R) to maintain the aircraft in the Fleet. The modification to the wing center section is to prevent structural cracks due to fatigue.

The original design service life of the C-2A(R) was 10,000 flight hours with 15,000 landings. The C-2A(R) Service Life Extension Program (SLEP) extended the service life to 15,000 flight hours with 36,000 landings. Average service life remaining on the C-2A(R) is 4,400 hours. There is a total number of 33 C-2A aircraft.

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Exhibit P-40, Budget Line Item Justification: PB 2024 Navy **Date:** March 2023

Appropriation / Budget Activity / Budget Sub Activity:
1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft

P-1 Line Item Number / Title:
0556 / C-2A

ID Code (A=Service Ready, B=Not Service Ready): A **Program Elements for Code B Items:** N/A **Other Related Program Elements:** N/A

Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	1 / 011-07 Critical Components (Mission Performance Enhancements)				- / 27.972	- / 0.624	- / 0.000	- / 0.000	- / 0.000	- / 0.000
P-3a	2 / 004-16 C-2 Critical Brake Upgrade (Mission Performance Enhancements)				- / 23.210	- / 2.219	- / 0.000	- / 0.000	- / 0.000	- / 0.000
P-3a	3 / 014-17 Structural Enhancements (Mission Performance Enhancements)				- / 33.455	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000
P-3a	4 / Inactive OSIPs (TBD)				- / 443.936	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000
P-40	Total Gross/Weapon System Cost				- / 528.573	- / 2.843	- / 0.000	- / 0.000	- / 0.000	- / 0.000

Exhibits Schedule					FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	1 / 011-07 Critical Components (Mission Performance Enhancements)				- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 28.596
P-3a	2 / 004-16 C-2 Critical Brake Upgrade (Mission Performance Enhancements)				- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 25.429
P-3a	3 / 014-17 Structural Enhancements (Mission Performance Enhancements)				- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 33.455
P-3a	4 / Inactive OSIPs (TBD)				- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 443.936
P-40	Total Gross/Weapon System Cost				- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / -	- / 531.416

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

Justification:
There is no budget request for FY 2024. FY 2022 is the last year of funding.

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0556 / C-2A	Modification Number / Title: 1 / 011-07 Critical Components

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	27.972	0.624	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	28.596
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	27.972	0.624	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	28.596
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	27.972	0.624	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	28.596

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The C-2A(R) Service Life Extension Program (SLEP) extended the Navy's Carrier Onboard Delivery capability beyond the original projected service life. With a longer air vehicle life, problems with other non-SLEP systems require upgrade/modifications. OSIP 11-07 procures a portion of the Critical Components communication avionics, radios, transducers, ejector valves, hydraulics, power and propulsion subsystems.

FY 2022 request is to procure and install qty 42 Quick Engine Change (QEC) fire sleeves. This modification is required to reduce the risk of catastrophic engine damage due to fuel and oil leakage.

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Exhibit P-3a, Individual Modification: PB 2024 Navy											Date: March 2023		
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0556 / C-2A					Modification Number / Title: 1 / 011-07 Critical Components			
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: C-2A(R) Aircraft				Modification Type: Mission Performance Enhancements				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
<i>Modification Item 1 of 1: 011-07 Critical Components</i>													
A Kits													
Recurring													
1.1.1) Ejector Valve - Organic	80 / 5.726	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	80 / 5.726	
1.1.2) Quick Engine Changes (QEC) Fire Sleeve - Organic ⁽¹⁾	- / -	42 / 0.294	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	42 / 0.294	
1.1.3) ARCHIVE Modification - Organic	- / 9.317	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 9.317	
Subtotal: Recurring	- / 15.043	- / 0.294	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 15.337	
Non-Recurring													
1.2.1) Installation Kits N/R - Organic	- / 2.415	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.415	
1.2.2) Quick Engine Changes (QEC) Fire Sleeve - Organic	- / 0.222	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.222	
Subtotal: Non-Recurring	- / 2.637	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 2.637	
B Kits													
Recurring													
2.1.1) Installation Equipment - Organic	- / 0.470	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.470	
Subtotal: Recurring	- / 0.470	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 0.470	
Subtotal: 011-07 Critical Components	80 / 18.150	42 / 0.294	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	122 / 18.444	
Subtotal: Procurement, All Modification Items	- / 18.150	- / 0.294	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 18.444	
Support (All Modification Items)													
3.1) Data	- / 0.746	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.746	
3.2) ILS	- / 1.170	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.170	
3.3) Training Equipment	- / 0.505	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.505	
3.4) Support Equipment	- / 0.007	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.007	
3.5) Other Support	- / 17.394	- / 0.330	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 17.724	
Subtotal: Support	- / 9.822	- / 0.330	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 10.152	
Installation													
Subtotal: Installation	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
Total													

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Exhibit P-3a, Individual Modification: PB 2024 Navy **Date:** March 2023

Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0556 / C-2A	Modification Number / Title: 1 / 011-07 Critical Components
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ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Models of Systems Affected: C-2A(R) Aircraft	Modification Type: Mission Performance Enhancements	Related RDT&E PEs:
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Financial Plan	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Total Cost (Procurement + Support + Installation)	27.972	0.624	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	28.596

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0556 / C-2A	Modification Number / Title: 1 / 011-07 Critical Components
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:
Modification Item 1 of 1: 011-07 Critical Components		

Footnotes:

(1) Quick Engine Changes (QEC) Fire Sleeve installed at I Level.

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Exhibit P-3a, Individual Modification: PB 2024 Navy	Date: March 2023
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Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0556 / C-2A	Modification Number / Title: 2 / 004-16 C-2 Critical Brake Upgrade
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ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	23.210	2.219	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	25.429
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) <i>(\$ in Millions)</i>	23.210	2.219	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	25.429
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	23.210	2.219	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	25.429

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Dollars)</i>	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The C-2A(R) Greyhound Critical Brake Upgrade adds an Anti-Skid Brake System (ABS) to the aircraft which helps mitigate directional stability safety issues by enhancing ground controllability for land based runway conditions.

FY 2022 request is to fund remaining ABS fleet installs which were delayed in FY20 due to fleet aircraft availability.

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Exhibit P-3a, Individual Modification: PB 2024 Navy										Date: March 2023			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0556 / C-2A					Modification Number / Title: 2 / 004-16 C-2 Critical Brake Upgrade			
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: C-2A(R) Aircraft				Modification Type: Mission Performance Enhancements				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
<i>Modification Item 1 of 1: 004-16 C-2 Critical Brake Upgrade</i>													
A Kits													
Recurring													
1.1.1) Critical Brakes - NonOrganic ⁽²⁾	33 / 4.690	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	33 / 4.690	
<i>Subtotal: Recurring</i>	- / 4.690	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 4.690	
Non-Recurring													
1.2.1) A-Kits N/R - Organic	- / 1.262	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.262	
<i>Subtotal: Non-Recurring</i>	- / 1.262	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 1.262	
B Kits													
Recurring													
2.1.1) Critical Brakes B-kit - Organic	33 / 2.689	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	33 / 2.689	
<i>Subtotal: Recurring</i>	- / 2.689	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 2.689	
<i>Subtotal: 004-16 C-2 Critical Brake Upgrade</i>	66 / 8.641	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	66 / 8.641	
<i>Subtotal: Procurement, All Modification Items</i>	- / 8.641	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 8.641	
Support (All Modification Items)													
3.1) Data	- / 0.642	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.642	
3.2) ILS	- / 2.787	- / 0.230	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 3.017	
3.3) Training Equipment	- / 0.276	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.276	
3.4) Support Equipment	- / 0.458	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.458	
3.5) Other Support	- / 17.694	- / 0.814	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 18.508	
<i>Subtotal: Support</i>	- / 11.857	- / 1.044	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 12.901	
Installation													
<i>Modification Item 1 of 1: 004-16 C-2 Critical Brake Upgrade</i>	- / 2.712	- / 1.175	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 3.887	
<i>Subtotal: Installation</i>	- / 2.712	- / 1.175	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 3.887	
Total													
Total Cost (Procurement + Support + Installation)	23.210	2.219	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	25.429	

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Exhibit P-3a, Individual Modification: PB 2024 Navy **Date:** March 2023

Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0556 / C-2A	Modification Number / Title: 2 / 004-16 C-2 Critical Brake Upgrade
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ID Code (A=Service Ready, B=Not Service Ready) : **MDAP/MAIS Code:**

Modification Item 1 of 1: 004-16 C-2 Critical Brake Upgrade

Manufacturer Information

Manufacturer Name: Critical Brake Upgrade	Manufacturer Location: Field Mod Team
Administrative Leadtime (in Months): 2	Production Leadtime (in Months): 6

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates							
Delivery Dates							

Installation Information

Method of Implementation: Field Mod Team:: Installation Name: Critical Brake Upgrade

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	25 / 2.712	8 / 1.175	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	33 / 3.887
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	25 / 2.712	8 / 1.175	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	33 / 3.887

Installation Schedule

PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot		
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4				
In	25	2	2	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	33
Out	25	2	2	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	33

Method of Implementation (Organic): Critical Brakes B-kit **Installation Quantity:** 33

Footnotes:
(2) Fleet installs were delayed due to fleet aircraft availability.

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Exhibit P-3a, Individual Modification: PB 2024 Navy	Date: March 2023
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Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0556 / C-2A	Modification Number / Title: 3 / 014-17 Structural Enhancements
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ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	33.455	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	33.455
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	33.455	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	33.455
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	33.455	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	33.455

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The structural enhancements to the C-2 series aircraft target improvements to structural integrity and support costs. These improvements are a vital requirement for C-2 to maintain the aircraft in the Fleet until the planned sundown. Structural changes to the wing center section will increase survivability, improve maintainability and aircraft availability, eliminate component interferences, improve suitability and correct safety related issues. This effort will take the C-2 Fleet to full service life.

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Exhibit P-3a, Individual Modification: PB 2024 Navy										Date: March 2023			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0556 / C-2A					Modification Number / Title: 3 / 014-17 Structural Enhancements			
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: C-2A(R) Aircraft				Modification Type: Mission Performance Enhancements				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
<i>Modification Item 1 of 1:</i> 014-17 Structural Enhancements													
B Kits													
Recurring													
1.1.1) Wing Center Section - NonOrganic	25 / 14.921	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	25 / 14.921	
<i>Subtotal: Recurring</i>	- / 14.921	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 14.921	
Non-Recurring													
1.2.1) B Kits N/R - Organic	- / 0.901	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.901	
<i>Subtotal: Non-Recurring</i>	- / 0.901	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 0.901	
<i>Subtotal: 014-17 Structural Enhancements</i>	25 / 15.822	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	25 / 15.822	
<i>Subtotal: Procurement, All Modification Items</i>	- / 15.822	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 15.822	
Support (All Modification Items)													
2.1) Data	- / 0.409	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.409	
2.2) ILS	- / 2.524	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.524	
2.3) Support Equipment	- / 0.497	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.497	
2.4) Other Support	- / 3.898	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 3.898	
<i>Subtotal: Support</i>	- / 7.328	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 7.328	
Installation													
<i>Modification Item 1 of 1:</i> 014-17 Structural Enhancements	- / 10.305	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 10.305	
<i>Subtotal: Installation</i>	- / 10.305	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 10.305	
Total													
Total Cost (Procurement + Support + Installation)	33.455	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	33.455	

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0556 / C-2A	Modification Number / Title: 3 / 014-17 Structural Enhancements

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Modification Item 1 of 1: 014-17 Structural Enhancements

Manufacturer Information

Manufacturer Name: Wing Center Section	Manufacturer Location: Field Mod Team
Administrative Leadtime (in Months): 2	Production Leadtime (in Months): 8

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates	Nov 2022						
Delivery Dates	Jul 2023						

Installation Information

Method of Implementation: Field Mod Team:: Installation Name: Wing Center Section

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	25 / 10.305	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	25 / 10.305
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	25 / 10.305	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	25 / 10.305

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	21	2	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	25	
Out	21	2	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	25		

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Exhibit P-3a, Individual Modification: PB 2024 Navy	Date: March 2023
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Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0556 / C-2A	Modification Number / Title: 4 / Inactive OSIPs
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ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	443.936	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	443.936
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	443.936	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	443.936
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	443.936	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	443.936

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Inactive OSIPs prior year totals.

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy										Date: March 2023		
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0556 / C-2A						Modification Number / Title: 4 / Inactive OSIPs		
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:					
Models of Systems Affected: [No Model Specified]				Modification Type: TBD				Related RDT&E PEs:				
Financial Plan <small>(*) Indicates the modification is being installed organically and no installation funds are required.</small>	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>
Procurement												
1.1.1) Inactive OSIPs - Organic ^(*)	- / 443.936	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 443.936
<i>Subtotal: Procurement</i>	- / 443.936	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 443.936
Installation												
<i>Subtotal: Installation</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total												
Total Cost (Procurement + Support + Installation)	443.936	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	443.936

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2024 Navy **Date:** March 2023

Appropriation / Budget Activity / Budget Sub Activity: 1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft	P-1 Line Item Number / Title: 0560 / C-130 Series
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: 433

Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	1,136.726	103.539	132.170	198.220	0.000	198.220	216.000	225.537	229.995	234.920	328.639	2,805.746
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	1,136.726	103.539	132.170	198.220	0.000	198.220	216.000	225.537	229.995	234.920	328.639	2,805.746
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	1,136.726	103.539	132.170	198.220	0.000	198.220	216.000	225.537	229.995	234.920	328.639	2,805.746

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

DESCRIPTION: This item funds modifications to C/KC-130 aircraft. The Lockheed C/KC-130 aircraft is a four engine, high-wing, all metal, long range, land based monoplane capable of all-weather transport of cargo or personnel and in-flight refueling. There are currently 99 aircraft in the Navy and Marine Corps inventory as of Feb 2023 (57 active and 42 reserve). The expected Service Life is as follows:

T/M/S Service Date Service Life Expected Life
 C-130T 10/91 - 11/95 450 mos. 2028-2032 (QTY 16)
 C-130J 08/99 - 450 mos. 2037 (QTY 1)
 KC-130T 04/84 - 02/96 450 mos. 2021-2033 (QTY 16)
 KC-130J 09/00 - 10/26 450 mos. 2037-2063 (QTY 66)

CTC Total: 328.639
 USMC: 120.483
 USN: 208.156

Secondary Distribution		FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028
Navy	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	61.278	83.066	102.565	-	102.565	116.729	118.127	128.208	133.580
NR	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	42.261	49.104	95.655	-	95.655	99.271	107.410	101.787	101.340
Total:	Quantity	-	-	-	-	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	103.539	132.170	198.220	-	198.220	216.000	225.537	229.995	234.920

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2024 Navy **Date:** March 2023

Appropriation / Budget Activity / Budget Sub Activity: 1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft **P-1 Line Item Number / Title:** 0560 / C-130 Series

ID Code (A=Service Ready, B=Not Service Ready): A **Program Elements for Code B Items:** N/A **Other Related Program Elements:** N/A

Line Item MDAP/MAIS Code: 433

Exhibits Schedule					Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	1 / C/KC-130 ISR / WEAPONS MISSION KIT (022-07) (Performance Enhancement)				- / 260.500	- / 3.959	- / 9.720	- / 4.582	- / 0.000	- / 4.582
P-3a	2 / Avionics /Obsolescence Upgrades (OSIP 008-12) (Safety / Readiness)				- / 185.544	- / 17.300	- / 0.000	- / 0.000	- / 0.000	- / 0.000
P-3a	3 / Electronic Counter Measures (OSIP 020-12) (Safety)				- / 117.271	- / 11.324	- / 12.357	- / 14.126	- / 0.000	- / 14.126
P-3a	4 / Technical Insertion (OSIP 019-14) (Safety / Reliability / Obsolescence)				- / 193.551	- / 44.242	- / 56.322	- / 70.206	- / 0.000	- / 70.206
P-3a	5 / Safety/Obsolescence Upgrades (OSIP 015-17) (Safety / Reliability / Obsolescence)				- / 8.477	- / 26.714	- / 53.771	- / 109.306	- / 0.000	- / 109.306
P-3a	6 / Inactive OSIPs (TBD)				- / 371.383	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000
P-40	Total Gross/Weapon System Cost				- / 1,136.726	- / 103.539	- / 132.170	- / 198.220	- / 0.000	- / 198.220

Exhibits Schedule					FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	1 / C/KC-130 ISR / WEAPONS MISSION KIT (022-07) (Performance Enhancement)				- / 3.219	- / 21.882	- / 11.069	- / 1.598	- / 0.000	- / 316.529
P-3a	2 / Avionics /Obsolescence Upgrades (OSIP 008-12) (Safety / Readiness)				- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 202.844
P-3a	3 / Electronic Counter Measures (OSIP 020-12) (Safety)				- / 23.397	- / 12.955	- / 7.330	- / 21.319	- / 11.995	- / 232.074
P-3a	4 / Technical Insertion (OSIP 019-14) (Safety / Reliability / Obsolescence)				- / 60.227	- / 58.159	- / 92.192	- / 96.845	- / 108.488	- / 780.232
P-3a	5 / Safety/Obsolescence Upgrades (OSIP 015-17) (Safety / Reliability / Obsolescence)				- / 129.157	- / 132.541	- / 119.404	- / 115.158	- / 208.156	- / 902.684
P-3a	6 / Inactive OSIPs (TBD)				- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 371.383
P-40	Total Gross/Weapon System Cost				- / 216.000	- / 225.537	- / 229.995	- / 234.920	- / 328.639	- / 2,805.746

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

Justification:

The FY 2024 request provides funding to procure aircraft modifications to include Weapons Mission Kits, Electronic Countermeasures, Safety, Reliability, Readiness and Obsolescence Issues and Communication Navigation Surveillance System (CNS) Air Traffic Management (ATM) requirements such as Block Upgrade (BU) 8.1 for the C/KC-130 program. FY 2024 adds a DoN Large Aircraft Infrared Counter Measure (LAIRCM) install that was lost in FY22 due to decrease in appropriation; increases BU kit procurement, Observer Seat kits, C/KC-130T Performance Enhancements kits, C/KC-130T GPS and CDU NRE to the optimal level; and completes B8.1 mission computer procurement and MANGL NRE. FY 2024 also begins the Carbon Brake Kit, Enhanced Center Wing Box kit procurement, C/KC-130T Performance Enhancement installs, and the Cargo Winch effort.

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Exhibit P-40, Budget Line Item Justification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft		P-1 Line Item Number / Title: 0560 / C-130 Series
ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
Line Item MDAP/MAIS Code: 433		
<p>In Dec 2021, the MDA signed an Acquisition Decision Memorandum directing a restructure of the AOU program away from the Government LSI solution and to satisfy AOU requirements through minimal obsolescence upgrades. Due to unsolvable technical and schedule risks, the system was determined not to be suitable for fielding to the fleet as originally planned. As a result, obsolescence of critical aircraft systems will now be addressed as individual Engineering Change Proposals under existing Safety/Obsolescence Upgrades OSIP (OSIP 015-17).</p>		

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0560 / C-130 Series	Modification Number / Title: 1 / C/KC-130 ISR / WEAPONS MISSION KIT (022-07)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	260.500	3.959	9.720	4.582	0.000	4.582	3.219	21.882	11.069	1.598	0.000	316.529
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	260.500	3.959	9.720	4.582	0.000	4.582	3.219	21.882	11.069	1.598	0.000	316.529
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	260.500	3.959	9.720	4.582	0.000	4.582	3.219	21.882	11.069	1.598	0.000	316.529

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

DESCRIPTION/JUSTIFICATION: The KC-130 provides air-to-air refueling (AAR), aviation delivered ground refueling, tactical troop transport, aerial delivery of personnel and cargo, airborne radio relay, Digital Interoperability (DI), tactical aero-medical evacuation, Multi-Sensor Imagery and Reconnaissance (MIR), and Close Air Support (CAS). The objective of this effort is to integrate a MIR and air-to-ground weapons systems kit into the KC-130J aircraft to provide the Marine Air-Ground Task Force (MAGTF) with an intra-theater CAS and MIR capability for real time intelligence gathering and target detection, identification, and tracking in support of weapons delivery and maintain the refueling capability and capacity of the KC-130J. The MIR/Weapon System Kit consists of a MIR sensor, and wing or door mounted air-to-ground missiles and precision guided munitions. The system is configured as a Roll-On/Roll-Off capability for rapid deployment. This OSIP provides funding for ECPs to improve Digital Interoperability (DI) including video and datalink connectivity, Beyond Line of Sight (BLOS) communications, support Block 7.0/8.1 interoperability, address operating system cybersecurity vulnerabilities, and address future munition integration (Hellfire, Small Diameter Bomb, etc.) and obsolescence.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: Evaluation of BLOS Phase 2 integration on test aircraft and software integration lab through FY23. Fleet kit installations planned through FY24. Link16 ECP NRE/Test planned for FY23 with Fleet kit installation planned through FY25. AGM-176 Griffin Block 4 and AGM-179 JAGM integration planned to begin in FY26.

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Exhibit P-3a, Individual Modification: PB 2024 Navy										Date: March 2023			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0560 / C-130 Series					Modification Number / Title: 1 / C/KC-130 ISR / WEAPONS MISSION KIT (022-07)			
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: C/KC-130T/J				Modification Type: Performance Enhancement				Related RDT&E PEs:					
Financial Plan <small>(*) Indicates the modification is being installed organically and no installation funds are required.</small>	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
1.1.1) JAGM A Kit - Organic ^(*)	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.079	- / -	- / -	- / 0.079	
1.1.2) Archive - Organic ^{(*) (1)}	- / 44.457	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 44.457	
1.1.3) Griffin A-Kit - Organic ^(*)	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	9 / 0.479	- / -	- / -	9 / 0.479	
1.2.1) Installation Kits N/R - Organic ^(*)	- / 7.895	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 7.895	
2.1.1) Archive - Organic ^{(*) (2)}	- / 104.560	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 104.560	
2.1.2) BLOS B-Kit - NonOrganic ⁽³⁾ <i>Installation 1 of 2</i>	2 / 0.167	- / -	2 / 0.177	2 / 0.182	- / -	2 / 0.182	- / -	- / -	- / -	- / -	- / -	6 / 0.526	
2.1.3) Link-16 Kit - NonOrganic <i>Installation 2 of 2</i>	- / 0.264	- / -	4 / 1.176	2 / 0.611	- / -	2 / 0.611	- / -	- / -	- / -	- / -	- / -	6 / 2.051	
2.1.4) Griffin B-Kits - Organic ^(*)	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.721	- / -	- / -	- / -	- / 2.721	
2.2.1) Installation Equipment N/R - Organic ^(*)	- / 41.156	- / -	- / 0.232	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 41.388	
2.2.2) JAGM NRE - Organic ^(*)	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 17.127	- / -	- / -	- / -	- / 17.127	
2.2.3) JAGM Testing - Organic ^(*)	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 4.534	- / -	- / -	- / 4.534	
2.2.4) JAGM Instrumentation - Organic ^(*)	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.100	- / -	- / -	- / 1.100	
2.2.5) Link-16 Test - Organic ^(*)	- / -	- / -	- / 0.875	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.875	
2.2.6) BLOS Test - Organic ^(*)	- / 1.498	- / -	- / 1.200	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.698	
2.2.7) Griffin NRE - Organic ^(*)	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 9.460	- / 2.077	- / -	- / -	- / 11.537	
Subtotal: Procurement	- / 199.997	- / -	- / 3.660	- / 0.793	- / -	- / 0.793	- / -	- / 19.308	- / 8.269	- / -	- / 0.000	- / 232.027	
Support													
3.1) Data	- / 0.808	- / -	- / -	- / 0.125	- / -	- / 0.125	- / -	- / -	- / 0.150	- / -	- / -	- / 1.083	
3.2) Training Equipment	- / 5.107	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 5.107	
3.3) Support Equipment	- / 2.322	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.322	
3.4) ILS	- / 17.298	- / 0.996	- / 0.795	- / 0.582	- / -	- / 0.582	- / 0.500	- / 0.618	- / 0.636	- / 0.328	- / -	- / 11.753	
3.5) Other Support	- / 127.630	- / 2.963	- / 1.106	- / 0.902	- / -	- / 0.902	- / 0.929	- / 1.956	- / 2.014	- / 1.270	- / -	- / 38.770	
3.6) Interim Contractor Support	- / 16.906	- / -	- / 2.049	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 18.955	
Subtotal: Support	- / 60.071	- / 3.959	- / 3.950	- / 1.609	- / -	- / 1.609	- / 1.429	- / 2.574	- / 2.800	- / 1.598	- / 0.000	- / 77.990	
Installation													
Installation 1 of 2: BLOS B-Kit	- / 0.432	- / -	- / 0.460	- / 0.460	- / 0.000	- / 0.460	- / -	- / -	- / -	- / -	- / 0.000	- / 1.352	
Installation 2 of 2: Link-16 Kit	- / -	- / -	- / 1.650	- / 1.720	- / 0.000	- / 1.720	- / 1.790	- / -	- / -	- / -	- / 0.000	- / 15.160	

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0560 / C-130 Series	Modification Number / Title: 1 / C/KC-130 ISR / WEAPONS MISSION KIT (022-07)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Models of Systems Affected: C/KC-130T/J	Modification Type: Performance Enhancement	Related RDT&E PEs:
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Financial Plan <small>(* Indicates the modification is being installed organically and no installation funds are required.)</small>	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>
<i>Subtotal: Installation</i>	- / 0.432	- / -	- / 2.110	- / 2.180	- / -	- / 2.180	- / 1.790	- / -	- / -	- / -	- / 0.000	- / 6.512
Total												
Total Cost (Procurement + Support + Installation)	260.500	3.959	9.720	4.582	0.000	4.582	3.219	21.882	11.069	1.598	0.000	316.529

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0560 / C-130 Series	Modification Number / Title: 1 / C/KC-130 ISR / WEAPONS MISSION KIT (022-07)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Installation 1 of 2: BLOS B-Kit

Manufacturer Information

Manufacturer Name: SNC	Manufacturer Location: Centennial, CO
Administrative Leadtime (in Months): 3	Production Leadtime (in Months): 5

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates		Jan 2023	Jan 2024				
Delivery Dates		Jun 2023	Jun 2024				

Installation Information

Method of Implementation: [none specified]:: Installation Name: BLOS B-Kit

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	2 / 0.432	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	2 / 0.432
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	2 / 0.460	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	2 / 0.460
FY 2024	- / -	- / -	- / -	2 / 0.460	0 / 0.000	2 / 0.460	- / -	- / -	- / -	- / -	0 / 0.000	2 / 0.460
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	2 / 0.432	- / -	2 / 0.460	2 / 0.460	0 / 0.000	2 / 0.460	- / -	- / -	- / -	- / -	0 / 0.000	6 / 1.352

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot	
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4			
In	2	-	-	-	-	-	-	2	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6
Out	-	2	-	-	-	-	-	-	2	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0560 / C-130 Series	Modification Number / Title: 1 / C/KC-130 ISR / WEAPONS MISSION KIT (022-07)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Installation 2 of 2: Link-16 Kit

Manufacturer Information

Manufacturer Name: SNC	Manufacturer Location: Centennial, CO
Administrative Leadtime (in Months): 4	Production Leadtime (in Months): 8

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates		Jan 2023	Feb 2024				
Delivery Dates		Sep 2023	Oct 2024				

Installation Information

Method of Implementation: [none specified]:: Installation Name: Link-16 Kit

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	2 / 1.650	2 / 1.720	0 / 0.000	2 / 1.720	- / -	- / -	- / -	- / -	0 / 0.000	4 / 3.370
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	2 / 1.790	- / -	- / -	- / -	0 / 0.000	2 / 1.790
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	2 / 1.650	2 / 1.720	0 / 0.000	2 / 1.720	2 / 1.790	- / -	- / -	- / -	0 / 0.000	6 / 5.160

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	2	2	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Out	-	-	-	-	-	-	-	-	-	2	2	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-		

Footnotes:
(1) 1.1.2: PY includes Harvest Hawk A-Kits (\$3.0M/Qty 10) and installs (\$6.801M/Qty 10); Harvest Hawk Radome A-Kit (\$0.417M/Qty 10).
(2) 2.1.1: PY includes ICS B-Kit (\$0.349M/Qty 6) and installs (\$0.300M/Qty 6); Win10 B-Kit (\$2.165M/Qty 6) and installs (\$1.230M/ Qty 6); Win10 Test Upgrade (\$0.974M); Link-16 NRE MOP Integration (\$3.734M); BLOS NRE (\$1.339M).

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0560 / C-130 Series	Modification Number / Title: 1 / C/KC-130 ISR / WEAPONS MISSION KIT (022-07)
ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:	

⁽³⁾ 2.1.2: BLOS (Kits/Equipment) did not execute as planned due to unanticipated delays to integration and test asset availability. Two kits planned to procure in FY22 will be procured in FY24.

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0560 / C-130 Series	Modification Number / Title: 2 / Avionics /Obsolescence Upgrades (OSIP 008-12)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	185.544	17.300	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	202.844
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	185.544	17.300	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	202.844
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	185.544	17.300	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	202.844

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

DESCRIPTION/JUSTIFICATION: Objective of the Avionics/Obsolescence Upgrades (AOU) Operational, Safety, and Improvement Program (OSIP) is to preserve the world-wide capabilities of the C/KC-130 aircraft by providing required capability enhancements and addressing obsolescence. The legacy C/KC-130T model aircraft have been in service for 28 years and still retain many of their original systems. AOU incorporates updated technologies to support safety, reliability, supportability, obsolescence, deficiency correction, mandated modifications, commonality, interoperability, and affordability of the C/KC-130T platform. AOU updates apply to aircraft avionics, navigation, communications, transponders, sensors, transmitters, antennae, radars, and other electronic aircraft systems to meet global Communication, Navigation, and Surveillance/Air Traffic Management (CNS/ATM) requirements and provides necessary safety equipment for aircraft carrying troops.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: AOU program is post Milestone-C, Low Rate Initial Production 2 approved. Government is Lead Systems Integrator (LSI), performing the majority of the NRE and installation of the validation and verification aircraft kits. Contract awarded for software integration non-recurring engineering and non-developmental systems in September 2012. Government ground testing on validation aircraft began 2017. Developmental Flight Test began February 2019 following a 19-month delay due to the K/C-130T Red Stripe detailed below. Updated APB was signed by the MDA in Dec 2019.

In July 2017, the United States Navy, Naval Reserve, and Marine Corps Reserve C/KC-130T aircraft were grounded as a result of a 54H60-111 propeller "Red Stripe". The Red Stripe delayed the start of flight test for the Avionics Obsolescence Upgrade (AOU) program by 19 months, from Jul 2017 until Feb 2019, ultimately delaying Initial Operational Capability (IOC) by over two years. To address schedule impacts in the year of execution and mitigate further delays in Developmental Test & Evaluation (DT) the FY 2019-2021 Full-Rate Production (FRP) kit quantities and installations were realigned.

In Dec 2021, the MDA signed an Acquisition Decision Memorandum directing a restructure of the program away from the Government LSI solution and to satisfy AOU requirements through minimal obsolescence upgrades. Due to unsolvable technical and schedule risks, the system was determined not to be suitable for fielding to the fleet as originally planned. As a result, obsolescence of critical aircraft systems will now be addressed as individual Engineering Change Proposals under existing Safety/Obsolescence Upgrades OSIP (OSIP 015-17). The FY23 critical aircraft safety ECP efforts to satisfy minimal obsolescence upgrades in the Safety/Obsolescence Upgrade OSIP will include ARC-210, GPS upgrade, and Control Display Unit (CDU). Future safety obsolescence mitigation efforts beginning in FY25 (including HF radios, radars, TACAN, and Very High Frequency omni-directional range/instrument landing system (VOR/ILS)) have also been realigned.

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Exhibit P-3a, Individual Modification: PB 2024 Navy											Date: March 2023	
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0560 / C-130 Series				Modification Number / Title: 2 / Avionics /Obsolescence Upgrades (OSIP 008-12)				
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:					
Models of Systems Affected: C/KC-130T/J				Modification Type: Safety / Readiness				Related RDT&E PEs:				
Financial Plan	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Procurement												
<i>Modification Item 1 of 1: Avionics /Obsolescence Upgrades (OSIP 008-12)</i>												
A Kits												
Recurring												
1.1.1) A Kits - Organic ⁽⁴⁾	3 / 10.341	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3 / 10.341
<i>Subtotal: Recurring</i>	- / 10.341	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 10.341
Non-Recurring												
1.2.1) Installation Kits N/R - Organic	1 / 24.528	1 / 4.076	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 28.604
<i>Subtotal: Non-Recurring</i>	- / 24.528	- / 4.076	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 28.604
B Kits												
Recurring												
2.1.1) B Kits - Organic	3 / 8.595	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3 / 8.595
<i>Subtotal: Recurring</i>	- / 8.595	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 8.595
Non-Recurring												
2.2.1) NRE/TEST - Government - Organic	- / 139.264	- / 3.500	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 142.764
2.2.2) NRE - Contractor - Organic	1 / 48.621	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 48.621
<i>Subtotal: Non-Recurring</i>	- / 87.885	- / 3.500	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 91.385
<i>Subtotal: Avionics /Obsolescence Upgrades (OSIP 008-12)</i>	8 / 131.349	1 / 7.576	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	9 / 138.925
<i>Subtotal: Procurement, All Modification Items</i>	- / 131.349	- / 7.576	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 138.925
Support (All Modification Items)												
3.1) Data	- / 1.166	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.166
3.2) Training Equipment	- / 1.081	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.081
3.3) Support Equipment	- / 12.480	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 12.480
3.4) ILS	- / 116.831	- / 0.649	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 117.480
3.5) Other Support	- / 132.637	- / 19.075	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 141.712
<i>Subtotal: Support</i>	- / 54.195	- / 9.724	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 63.919
Installation												
<i>Subtotal: Installation</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total												

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0560 / C-130 Series	Modification Number / Title: 2 / Avionics /Obsolescence Upgrades (OSIP 008-12)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Models of Systems Affected: C/KC-130T/J	Modification Type: Safety / Readiness	Related RDT&E PEs:
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Financial Plan	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Total Cost (Procurement + Support + Installation)	185.544	17.300	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	202.844

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0560 / C-130 Series	Modification Number / Title: 2 / Avionics /Obsolescence Upgrades (OSIP 008-12)
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:
Modification Item 1 of 1: Avionics /Obsolescence Upgrades (OSIP 008-12)		

Footnotes:

⁽⁴⁾ 1.1.1: This amount includes \$5.982M for two prior year A-Kit installations. Funding was rolled into this line after installation schedule was deleted.

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0560 / C-130 Series	Modification Number / Title: 3 / Electronic Counter Measures (OSIP 020-12)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	117.271	11.324	12.357	14.126	0.000	14.126	23.397	12.955	7.330	21.319	11.995	232.074
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	117.271	11.324	12.357	14.126	0.000	14.126	23.397	12.955	7.330	21.319	11.995	232.074
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	117.271	11.324	12.357	14.126	0.000	14.126	23.397	12.955	7.330	21.319	11.995	232.074

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

DESCRIPTION/JUSTIFICATION: The KC-130 provides air-to-air refueling, aviation delivered ground refueling, tactical troop transport, aerial delivery of personnel and cargo, airborne radio relay, Digital Interoperability (DI), tactical aeromedical evacuation, Multi-Sensor Imagery and Reconnaissance (MIR), and Close Air Support (CAS). This OSIP provides funding for the addition of new Aircraft Survivability Equipment (ASE), including Department of the Navy (DoN) Large Aircraft Infrared Counter Measures (LAIRCM) with Advanced Threat Warning (ATW) and Hostile Fire Indication (HFI) and the KC-130J Adjustable Ballast System (JABS) to the KC-130J Aircraft. This increases survivability and allows the aircraft to operate under expanded threat environments, thereby increasing combat effectiveness. The addition of DoN LAIRCM with the ATW sensor expands the aircraft's capability to perform its core Mission Essential Tasking in any infrared threat environment. This OSIP also provides funding to ensure the most effective threat adaptive, reprogrammable, computer controlled threat defeating capabilities for the Defensive Electronic Counter Measures (DECM) portion of the ASE to increase combat effectiveness as well as future upgrades to the radar warning receiver (RWR) and counter measure system.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: The USMC is leveraging other DoN LAIRCM platforms to provide a common solution among naval platforms and to reduce Operations and Support (O&S) costs. Modification of aircraft are being performed at commercial facilities through FY28.

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Exhibit P-3a, Individual Modification: PB 2024 Navy										Date: March 2023				
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0560 / C-130 Series					Modification Number / Title: 3 / Electronic Counter Measures (OSIP 020-12)				
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:							
Models of Systems Affected: C/KC-130T/J				Modification Type: Safety				Related RDT&E PEs:						
Financial Plan <small>(*) Indicates the modification is being installed organically and no installation funds are required.</small>	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total		
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)		
Procurement														
1.1.1) LAIRCM A Kit - NonOrganic <i>Installation 1 of 2</i>	31 / 13.195	3 / 2.297	9 / 6.281	9 / 6.525	- / -	9 / 6.525	5 / 8.698	- / -	- / -	- / -	- / -	57 / 36.996		
1.1.2) LAIRCM JABS - NonOrganic <i>Installation 2 of 2</i>	65 / 3.451	6 / 0.404	7 / 0.420	6 / 0.360	- / -	6 / 0.360	- / -	- / -	- / -	- / -	- / -	84 / 4.635		
1.2.1) Archive - Organic ^(*)	- / 22.078	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 22.078		
2.1.1) LAIRCM B-Kit - Organic ^(*)	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	8 / 21.319	4 / 11.995	12 / 33.314		
2.1.2) Archive - Organic ^(*)	- / 17.634	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 17.634		
2.1.3) Meons - Organic ^(*)	7 / 0.612	- / 0.113	- / 0.115	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	7 / 0.840		
2.1.4) PCMCIA Cards - Organic ^(*)	33 / 0.050	33 / 0.049	33 / 0.050	73 / 0.110	- / -	73 / 0.110	- / -	- / -	- / -	- / -	- / -	172 / 0.259		
2.1.5) GFE - Organic ^(*)	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.471	- / -	- / -	- / -	- / -	- / 0.471		
2.2.1) NRE/Test - Government - Organic ^(*)	- / 11.689	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 11.689		
Subtotal: Procurement	- / 68.709	- / 2.863	- / 6.866	- / 6.995	- / -	- / 6.995	- / 9.169	- / -	- / -	- / 21.319	- / 11.995	- / 127.916		
Support														
3.1) Data	- / 0.113	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.113		
3.2) Training Equipment	- / 0.386	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.386		
3.3) Support Equipment	- / 1.204	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.204		
3.4) ILS	- / 6.593	- / 0.596	- / 0.435	- / 0.487	- / -	- / 0.487	- / 0.346	- / -	- / -	- / -	- / -	- / 8.457		
3.5) Other Support	- / 13.220	- / 0.691	- / 0.678	- / 0.696	- / -	- / 0.696	- / 0.463	- / -	- / -	- / -	- / -	- / 15.748		
Subtotal: Support	- / 21.516	- / 1.287	- / 1.113	- / 1.183	- / -	- / 1.183	- / 0.809	- / -	- / -	- / -	- / 0.000	- / 25.908		
Installation														
Installation 1 of 2: LAIRCM A Kit	- / 25.361	- / 5.158	- / 4.024	- / 5.580	- / 0.000	- / 5.580	- / 13.059	- / 12.955	- / 7.330	- / -	- / 0.000	- / 73.467		
Installation 2 of 2: LAIRCM JABS	- / 1.685	- / 2.016	- / 0.354	- / 0.368	- / 0.000	- / 0.368	- / 0.360	- / -	- / -	- / -	- / 0.000	- / 4.783		
Subtotal: Installation	- / 27.046	- / 7.174	- / 4.378	- / 5.948	- / -	- / 5.948	- / 13.419	- / 12.955	- / 7.330	- / -	- / 0.000	- / 78.250		
Total														
Total Cost (Procurement + Support + Installation)	117.271	11.324	12.357	14.126	0.000	14.126	23.397	12.955	7.330	21.319	11.995	232.074		

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0560 / C-130 Series	Modification Number / Title: 3 / Electronic Counter Measures (OSIP 020-12)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Installation 1 of 2: LAIRCM A Kit

Manufacturer Information

Manufacturer Name: Lockheed Martin - LAIRCM ⁽⁵⁾	Manufacturer Location: Marietta, GA
Administrative Leadtime (in Months): 3	Production Leadtime (in Months): 27

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates	Jan 2022	Jan 2023	Jan 2024	Jan 2025			
Delivery Dates	Mar 2024	Mar 2025	Mar 2026	Mar 2027			

Installation Information

Method of Implementation: Contractor Drive-In Modification:: Installation Name: LAIRCM A Kit

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	23 / 22.361	4 / 5.158	3 / 4.024	1 / 1.395	0 / 0.000	1 / 1.395	- / -	- / -	- / -	- / -	0 / 0.000	31 / 32.938
FY 2022	0 / 3.000	- / -	- / -	3 / 4.185	0 / 0.000	3 / 4.185	- / -	- / -	- / -	- / -	0 / 0.000	3 / 7.185
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	9 / 13.059	- / -	- / -	- / -	0 / 0.000	9 / 13.059
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	9 / 12.955	- / -	- / -	0 / 0.000	9 / 12.955
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	5 / 7.330	- / -	0 / 0.000	5 / 7.330
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	23 / 25.361	4 / 5.158	3 / 4.024	4 / 5.580	0 / 0.000	4 / 5.580	9 / 13.059	9 / 12.955	5 / 7.330	- / -	0 / 0.000	57 / 73.467

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	23	-	2	2	-	-	1	1	1	-	2	1	1	-	3	3	3	-	3	3	3	-	2	2	1	-	-	-	-	-	57
Out	22	1	-	2	2	-	-	1	1	1	-	2	1	1	-	3	3	3	-	3	3	3	-	2	2	1	-	-	-	-	57

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0560 / C-130 Series	Modification Number / Title: 3 / Electronic Counter Measures (OSIP 020-12)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Installation 2 of 2: LAIRCM JABS

Manufacturer Information

Manufacturer Name: J.F Taylor -JABS	Manufacturer Location: Lexington Park, MD
Administrative Leadtime (in Months): 2	Production Leadtime (in Months): 12

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates	Dec 2021	Dec 2022	Dec 2023				
Delivery Dates	Dec 2022	Dec 2023	Dec 2024				

Installation Information

Method of Implementation: [none specified]:: Installation Name: LAIRCM JABS

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	38 / 1.685	27 / 2.016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	65 / 3.701
FY 2022	- / -	- / -	6 / 0.354	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	6 / 0.354
FY 2023	- / -	- / -	- / -	7 / 0.368	0 / 0.000	7 / 0.368	- / -	- / -	- / -	- / -	0 / 0.000	7 / 0.368
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	6 / 0.360	- / -	- / -	- / -	0 / 0.000	6 / 0.360
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	38 / 1.685	27 / 2.016	6 / 0.354	7 / 0.368	0 / 0.000	7 / 0.368	6 / 0.360	- / -	- / -	- / -	0 / 0.000	84 / 4.783

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot	
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4			
In	38	7	7	7	6	2	2	2	-	3	3	1	-	2	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	84
Out	38	-	7	7	7	6	2	2	2	-	3	3	1	-	2	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	84

Footnotes:
⁽⁵⁾ PB22 enacted budget reductions in TOA shifted (1) LAIRCM installation and associated funding from FY22 to FY24.

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0560 / C-130 Series	Modification Number / Title: 4 / Technical Insertion (OSIP 019-14)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	193.551	44.242	56.322	70.206	0.000	70.206	60.227	58.159	92.192	96.845	108.488	780.232
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	193.551	44.242	56.322	70.206	0.000	70.206	60.227	58.159	92.192	96.845	108.488	780.232
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	193.551	44.242	56.322	70.206	0.000	70.206	60.227	58.159	92.192	96.845	108.488	780.232

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

DESCRIPTION/JUSTIFICATION: This OSIP supports modifications and upgrades to aircraft avionics, navigation, communications, transponders, Electronic Warfare (EW) systems, sensors, transmitters, antennae, mission computers and associated systems, electronic mission systems, C/KC-130 unique mission planning requirements or other electronic aircraft systems. Additionally, the OSIP provides for the incorporation and/or Tactical Demonstration (TACDEMO) of new or updated technologies to support safety, reliability, supportability, obsolescence, deficiency correction, Communication Navigation Surveillance System (CNS) / Air Traffic Management (ATM) modifications, commonality, Digital Interoperability (DI), interoperability, C/KC-130 unique mission planning requirements, or affordability of the C/KC-130 platform as well as the necessary Reliability Centered Maintenance (RCM) baselining required for these efforts. Planned future modifications include Block Upgrades / Capability Management Upgrades (CMU) with Flight Management System (FMS) performance enhancements to ensure future mission readiness of the KC-130J fleet, integration of the Marine Air Ground Task Force (MAGTF) Agile Network Gateway Link (MAGNL), Blue Force Tracker (BFT), Blue Force Situational Awareness (BFSA), and Ku Band Satellite System (KUSS) Beyond Line of Sight (BLOS) capabilities. Unique KC-130J mission planning requirements include map and communication tools. GPS re-transmission kits improve existing mission sets and enable the more rapid and consistent aerial delivery of personnel and cargo and the expeditious transport and delivery of munitions and advanced targeting systems. Technical Insertion also includes initial fielding of Interactive Electronic Technical Manual (IETM) and Automated Logistic Environments (ALE).

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: Block 8.1 upgrade consists of 56 kits and installs continuing through FY29. KC-130J Block Upgrade 8.1, which includes Communication Navigation Surveillance System (CNS) Air Traffic Management (ATM) mandates, new Flight Management System (FMS), transponder and Mission Computer updates for Required Navigation Performance (RNP) and Area Navigation (RNAV) and Automatic Dependent Surveillance - Broadcast (ADS-B) Out, safety improvements, improved Intercom System (ICS) Public Address (PA) System and enhanced covert lighting, deficiency correction, Telecommunications Electronics Material Protected from Emanating Spurious Transmissions (TEMPEST) compliance, and DI updates (Mode 5 Identification Friend and Foe (IFF) and Link 16). Also included is the development of the unique C/KC-130 Mission Planning Environment (MPE) requirement of Consolidated Airdrop Tool (CAT) 5.0 and Flight Performance Model (FPM) Take-off and Landing Data (TOLD) certification. Development of tablet enabled applications such as Electronic Take-off and Landing Data (ETOLD), Weight and Balance (W&B), and FPM planning.

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Exhibit P-3a, Individual Modification: PB 2024 Navy										Date: March 2023		
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0560 / C-130 Series						Modification Number / Title: 4 / Technical Insertion (OSIP 019-14)		
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:					
Models of Systems Affected: KC-130T/J				Modification Type: Safety / Reliability / Obsolescence				Related RDT&E PEs:				
Financial Plan <small>(*) Indicates the modification is being installed organically and no installation funds are required.</small>	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Procurement												
1.1.1) A Kit 7.0/8.1 Block Upgrade - NonOrganic ⁽⁶⁾ <i>Installation 1 of 1</i>	25 / 36.687	4 / 6.029	4 / 8.020	6 / 12.150	- / -	6 / 12.150	8 / 16.362	6 / 12.395	3 / 6.259	- / -	- / -	56 / 97.902
1.1.2) archive - Organic ^(*)	- / 14.459	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 14.459
1.2.1) Installation Kit N/R Block Upgrade - Organic ^(*)	- / 9.860	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 9.860
2.1.1) Block 7.08/8.1 GFE - Organic ^(*) (7)	- / 15.214	- / 2.519	- / 3.738	- / 11.793	- / -	- / 11.793	- / 13.918	- / 6.126	- / 3.156	- / -	- / -	- / 56.464
2.1.2) B Kit 7.0/8.1 Block Upgrade - Organic ^(*) (8)	25 / 45.214	4 / 6.029	4 / 8.020	6 / 12.150	- / -	6 / 12.150	8 / 16.362	6 / 12.395	3 / 6.259	- / -	- / -	56 / 106.429
2.1.3) STAR-XIII Mission Computer - Organic ^(*) (9)	- / -	- / -	48 / 3.473	106 / 7.822	- / -	106 / 7.822	- / -	- / -	- / -	- / -	- / -	154 / 11.295
2.1.4) KC-130J GPS Re-Transmission B Kit - Organic ^(*) (10)	- / -	- / -	- / -	- / -	- / -	- / -	7 / 1.200	27 / 4.959	7 / 1.411	27 / 5.108	16 / 2.880	84 / 15.558
2.1.5) GPS Modernization/EGI-M Kits - Organic ^(*)	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	43 / 8.828	43 / 8.828	86 / 17.656
2.1.6) Wireless ICS Kits - Organic ^(*)	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	523 / 3.661	- / -	523 / 3.661
2.1.7) Comms Suite Moderization Kits - Organic ^(*)	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	40 / 19.708	41 / 20.806	81 / 40.514
2.1.8) Block 8.1.2 Kits - Organic ^(*) (11)	- / -	- / -	- / -	86 / 2.504	- / -	86 / 2.504	- / -	- / -	- / -	- / -	- / -	86 / 2.504
2.1.9) Block X Kits - Organic ^(*)	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	8 / 31.269	78 / 55.000	86 / 86.269
2.2.1) MANGL/Digital Interoperability Integration NRE - Organic ^(*) (12)	- / -	- / -	- / 2.850	- / 8.570	- / -	- / 8.570	- / -	- / -	- / -	- / -	- / -	- / 11.420
2.2.2) STAR-XIII Mission Computer NRE - Organic ^(*) (13)	- / -	- / -	- / 5.363	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 5.363
2.2.3) EGI-M Integration NRE - Organic ^(*)	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 9.182	- / 11.153	- / -	- / -	- / 20.335
2.2.4) Secure BLOS/MUOS NRE - Organic ^(*)	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 3.071	- / 12.307	- / -	- / -	- / 15.378
2.2.5) Wireless ICS NRE - Organic ^(*)	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 5.772	- / -	- / -	- / 5.772
2.2.6) Communications Suite Moderization NRE - Organic ^(*)	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 15.235	- / -	- / -	- / 15.235
2.2.7) Block 8.1.2 NRE - Organic ^(*) (14)	- / -	- / -	- / 9.266	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 9.266
2.2.8) Block 8.1.2 Test - Organic ^(*) (15)	- / -	- / -	- / -	- / 0.950	- / -	- / 0.950	- / -	- / -	- / -	- / -	- / -	- / 0.950
2.2.9) KC-130J GPS Re-Transmission NRE - Organic ^(*) (16)	- / -	- / -	- / -	- / 1.000	- / -	- / 1.000	- / -	- / -	- / -	- / -	- / -	- / 1.000
2.2.10) Block X Software NRE - Organic ^(*)	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 20.402	- / -	- / -	- / 20.402
2.2.11) Block X Test - Organic ^(*)	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.900	- / -	- / 2.900
2.2.12) SMDP NRE - Organic ^(*)	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 8.064	- / 14.378	- / 22.442
2.2.13) Mission Planning NRE - Organic ^(*)	- / -	- / -	- / -	- / -	- / -	- / -	- / 3.659	- / -	- / -	- / -	- / -	- / 3.659
Subtotal: Procurement	- / 121.434	- / 14.577	- / 40.730	- / 56.939	- / -	- / 56.939	- / 51.501	- / 48.128	- / 81.954	- / 79.538	- / 101.892	- / 596.693

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Exhibit P-3a, Individual Modification: PB 2024 Navy										Date: March 2023			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0560 / C-130 Series					Modification Number / Title: 4 / Technical Insertion (OSIP 019-14)			
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: KC-130T/J				Modification Type: Safety / Reliability / Obsolescence				Related RDT&E PEs:					
Financial Plan <small>(*) Indicates the modification is being installed organically and no installation funds are required.</small>	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total	
	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	
Support													
3.1) Data Block Upgrade	- / 2.086	- / 0.224	- / 0.215	- / 0.205	- / -	- / 0.205	- / 0.200	- / 0.200	- / 0.200	- / 0.204	- / -	- / 3.534	
3.2) Training Equipment Block Upgrade ⁽¹⁷⁾	- / 29.066	- / 3.300	- / 6.534	- / 9.282	- / -	- / 9.282	- / -	- / -	- / -	- / 6.695	- / -	- / 54.877	
3.3) Support Equipment	- / 0.125	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.125	
3.4) ILS	- / 6.085	- / 1.311	- / 2.010	- / 0.659	- / -	- / 0.659	- / 0.617	- / 0.823	- / 0.848	- / 0.865	- / 0.757	- / 13.975	
3.5) Other Support	- / 21.661	- / 1.764	- / 1.424	- / 0.831	- / -	- / 0.831	- / 1.074	- / 1.004	- / 1.088	- / 1.110	- / 1.519	- / 31.475	
3.6) Interim Contractor Support Block Upgrade	- / 0.552	- / 0.378	- / 0.436	- / 0.270	- / -	- / 0.270	- / 0.255	- / 0.255	- / 0.262	- / 0.267	- / -	- / 2.675	
Subtotal: Support	- / 59.575	- / 6.977	- / 10.619	- / 11.247	- / -	- / 11.247	- / 2.146	- / 2.282	- / 2.398	- / 9.141	- / 2.276	- / 106.661	
Installation													
Installation 1 of 1: A Kit 7.0/8.1 Block Upgrade	- / 12.542	- / 22.688	- / 4.973	- / 2.020	- / 0.000	- / 2.020	- / 6.580	- / 7.749	- / 7.840	- / 8.166	- / 4.320	- / 76.878	
Subtotal: Installation	- / 12.542	- / 22.688	- / 4.973	- / 2.020	- / -	- / 2.020	- / 6.580	- / 7.749	- / 7.840	- / 8.166	- / 4.320	- / 76.878	
Total													
Total Cost (Procurement + Support + Installation)	193.551	44.242	56.322	70.206	0.000	70.206	60.227	58.159	92.192	96.845	108.488	780.232	

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Exhibit P-3a, Individual Modification: PB 2024 Navy **Date:** March 2023

Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0560 / C-130 Series	Modification Number / Title: 4 / Technical Insertion (OSIP 019-14)
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ID Code (A=Service Ready, B=Not Service Ready) : **MDAP/MAIS Code:**

Installation 1 of 1: A Kit 7.0/8.1 Block Upgrade

Manufacturer Information

Manufacturer Name: Lockheed Martin - Block Upgrade ⁽¹⁸⁾	Manufacturer Location: Greenville, SC
Administrative Leadtime (in Months): 4	Production Leadtime (in Months): 24

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates	Feb 2022	Feb 2023	Feb 2024	Feb 2025	Feb 2026	Feb 2027	
Delivery Dates	Feb 2024	Feb 2025	Feb 2026	Feb 2027	Feb 2028	Feb 2029	

Installation Information

Method of Implementation: Contractor Drive-In Mod:: Installation Name: A Kit 7.0/8.1 Block Upgrade

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	4 / 12.542	10 / 22.688	5 / 4.973	2 / 2.020	0 / 0.000	2 / 2.020	4 / 3.760	- / -	- / -	- / -	0 / 0.000	25 / 45.983
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	3 / 2.820	1 / 0.969	- / -	- / -	0 / 0.000	4 / 3.789
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4 / 3.874	- / -	- / -	0 / 0.000	4 / 3.874
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3 / 2.906	3 / 2.940	- / -	0 / 0.000	6 / 5.846
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3 / 2.940	5 / 5.105	0 / 0.000	8 / 8.045
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 1.960	3 / 3.061	1 / 1.080	6 / 6.101
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3 / 3.240	3 / 3.240
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	4 / 12.542	10 / 22.688	5 / 4.973	2 / 2.020	0 / 0.000	2 / 2.020	7 / 6.580	8 / 7.749	8 / 7.840	8 / 8.166	4 / 4.320	56 / 76.878

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	4	2	3	3	2	-	2	2	1	1	1	-	-	-	3	3	1	-	3	3	2	1	2	2	3	-	3	3	2	4	56
Out	-	2	2	2	3	3	2	2	-	2	1	1	1	-	-	-	3	3	1	-	3	3	2	1	3	2	2	-	3	9	56

Footnotes:

(6) 1.1.1: With an optimized/reduced install schedule in FY 2023, and kit cost increases with Lot 6-9 contracts, planned Block 8.1 FY 2024 kit procurements reduced from OTY 9 to 6.

(7) 2.1.1: Increase to appropriately fund required GFE to support six (6) A-B Kit procurements.

(8) 2.1.2: With an optimized/reduced install schedule in FY 2023, and kit cost increases with Lot 6-9 contracts, planned Block 8.1 FY 2024 kit procurements reduced from OTY 9 to 6.

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0560 / C-130 Series	Modification Number / Title: 4 / Technical Insertion (OSIP 019-14)
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:
<p>(9) 2.1.3: Increase to support Core Avionics Master Plan by procuring Mission and Flight Management Computers. QTY required is 154 (2 per AC *77 AC retrofit). Will be incorporated on production aircraft beginning on aircraft #78.</p> <p>(10) 2.1.4: Funding realigned from OSIP 015-17 to more accurately reflect execution of avionics requirements.</p> <p>(11) 2.1.8: Procures Block 8.1.2 kits to address critical operational deficiencies. NRE funding for this effort is under cost element 2.2.7.</p> <p>(12) 2.2.1: FY24 increase continues KC-130J specific integration NRE in support of accelerated USMC Digital Interoperability roadmap. PMA-209/Common Avionics is responsible for kit procurements beginning in FY25.</p> <p>(13) 2.2.2: STAR-XIII mission computers identified as critical DMSMS on the production line with impacts by 2024. FY23 NRE initiates USMC plan to retrofit in-service aircraft to match production configuration. USMC STAR-XIII NRE costs updated to reflect current retrofit effort estimate based off of USAF FY23 awarded NRE.</p> <p>(14) 2.2.7: FY23 funding reprioritized to address critical operational deficiencies with Block 7.0/8.1 software. Block 8.1.2 NRE updated to reflect current estimate based off FY23 definitized 8.1.1 contract cost.</p> <p>(15) 2.2.8: FY24 funding for organic validation testing of Block 8.1.2 operational flight plan (OFP).</p> <p>(16) 2.2.9: Funding realigned from OSIP 015-17 to more accurately reflect execution of avionics requirements.</p> <p>(17) 3.2: Increase required to fund USMC KC-130J Block 8.1 unique GFE required for training systems modifications in support of VMGR growth associated with Force Design 2030.</p> <p>(18) Full Rate Production installation contract awarded Sept 2022. Install costs updated in PB 2024 to reflect contractual costs. FY 2023 installs reduced by four to optimize schedule and balance flight line availability of aircraft to meet USMC mission.</p>		

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0560 / C-130 Series	Modification Number / Title: 5 / Safety/Obsolescence Upgrades (OSIP 015-17)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	8.477	26.714	53.771	109.306	0.000	109.306	129.157	132.541	119.404	115.158	208.156	902.684
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	8.477	26.714	53.771	109.306	0.000	109.306	129.157	132.541	119.404	115.158	208.156	902.684
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	8.477	26.714	53.771	109.306	0.000	109.306	129.157	132.541	119.404	115.158	208.156	902.684

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

DESCRIPTION/JUSTIFICATION: This OSIP funds modifications to Department of the Navy C/KC-130 aircraft to ensure preservation of Marine Air Ground Task Force (MAGTF) Assault Support and Navy-Unique Fleet

Essential Aircraft capabilities world-wide. This OSIP provides funding for issues that adversely affect aircraft safety, reliability and/or availability. Applicable areas include Power and Propulsion, Airframes and Structures, Safety and Life Support, Electrical Power, Readiness Initiatives and Survivability. This OSIP provides resources to correct such issues via Engineering Change Proposal (ECP) and other applicable efforts by modifying, improving, and upgrading aircraft structural safety and reliability.

Planned Engineering Change Proposals (ECP) for KC-130J reliability and obsolescence include: carbon brakes, observer seats, cargo winch, truss mount replacements, electronic circuit breaker and bus interface units, and Variable Speed Drogue (VSD) for aerial refueling (AR). Future ECPs include modifications to the legacy 3,600 gallon fuel tanks in the cargo compartment due to obsolete components that are not compatible with the KC-130J. The current KC-130 aircraft do not have observer seats in the cargo compartment required for safe operations in the tactical environment. The observer seats will provide increased crash attenuation, mission endurance, and restraint systems. Current observer seat Commercial Off The Shelf (COTS) items do not meet NAVAIR specifications. Planned material solution is being updated to meet USMC requirements. The current cargo winch has a high rate of failure and is insufficient for transporting modern equipment. It requires a replacement that has increased load capacity and reliability. Current AR configuration utilizes a high speed drogue to refuel tiltrotor and fixed wing aircraft and a low speed drogue to refuel rotary wing aircraft. The refueling drogue should be capable of supporting an airspeed envelope of 105-250 knots indicated airspeed (KIAS), providing aerial refueling support for all USMC refueling capable platforms. At a minimum, this OSIP must satisfy a critical safety gap for MV-22 operations by enabling refueling with the MV-22 operating on a single engine and at airspeeds between 150 and 210 KIAS.

The T56 Series 3.5 Engine Upgrade Program provides improvement in performance with design enhancements including new compressor wheels and compressor and turbine blades and vanes. Performance benefits include: Improved fuel efficiency, increased reliability, increased take-off thrust, increased climb rate, decreased take-off field length, increased payload carriage, and increased range.

Current Inter-Communication System (ICS) is a hardwire solution that impedes the aircrews' ability to carry out critical mission sets. A wireless ICS system will provide safer, unrestricted mobility for crew members to perform critical missions such as Aerial Delivery, ground and in-flight refueling. In addition, a wireless ICS facilitates crew members egress in the event of an emergency.

In Dec 2021, the MDA signed an Acquisition Decision Memorandum directing a restructure of the program away from the Government LSI solution and to satisfy AOU requirements through minimal obsolescence upgrades. Due to unsolvable technical and schedule risks, the system was determined not to be suitable for fielding to the fleet as originally planned. As a result, obsolescence of critical aircraft systems will now be addressed as individual Engineering Change Proposals under existing Safety/Obsolescence Upgrades OSIP (OSIP 015-17). The FY23 critical aircraft safety ECP efforts to satisfy former AOU requirements in the Safety/Obsolescence Upgrade OSIP will include ARC-210, GPS upgrade, and CDU. Former AOU modifications now covered by individual ECPs will also be incorporated into existing training devices.

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Exhibit P-3a, Individual Modification: PB 2024 Navy										Date: March 2023			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0560 / C-130 Series					Modification Number / Title: 5 / Safety/Obsolescence Upgrades (OSIP 015-17)			
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: KC-130J/T				Modification Type: Safety / Reliability / Obsolescence				Related RDT&E PEs:					
Financial Plan <small>(*) Indicates the modification is being installed organically and no installation funds are required.</small>	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
1.1.1) KC-130J Carbon Brake A Kit - Organic ⁽¹⁹⁾	- / -	- / -	- / -	2 / 1.578	- / -	2 / 1.578	27 / 17.966	26 / 17.899	13 / 9.301	- / -	- / -	68 / 46.744	
1.1.2) C/KC-130T GPS A Kit - NonOrganic <i>Installation 1 of 5</i>	- / -	3 / 0.030	10 / 0.157	8 / 0.132	- / -	8 / 0.132	6 / 0.104	- / -	- / -	- / -	- / -	27 / 0.423	
1.1.3) C/KC-130T Control Display Unit (CDU) A Kit - Organic ⁽²⁰⁾	- / -	- / -	- / -	- / -	- / -	- / -	9 / 1.656	9 / 1.957	9 / 2.054	- / -	- / -	27 / 5.667	
2.1.1) C/KC-130T B Kit Performance Enhancement - NonOrganic ⁽²¹⁾ <i>Installation 2 of 5</i>	- / -	- / -	9 / 10.226	19 / 21.494	- / -	19 / 21.494	28 / 32.182	28 / 33.995	21 / 26.639	28 / 34.087	7 / 8.115	140 / 166.738	
2.1.2) Archive - Organic ⁽²¹⁾	- / 1.654	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.654	
2.1.3) KC-130J Observer Seat B Kit - Organic ⁽²²⁾	26 / 2.000	18 / 1.372	15 / 1.414	66 / 6.903	- / -	66 / 6.903	56 / 5.645	9 / 1.540	- / -	- / -	- / -	190 / 18.874	
2.1.4) KC-130J Cargo Winch B Kit - Organic ⁽²²⁾	- / -	- / -	- / -	- / -	- / -	- / -	20 / 2.000	40 / 4.210	24 / 2.770	- / -	- / -	84 / 8.980	
2.1.5) C/KC-130T GPS B Kits - NonOrganic ⁽²³⁾ <i>Installation 3 of 5</i>	- / -	3 / 0.259	10 / 2.445	8 / 2.282	- / -	8 / 2.282	6 / 0.899	- / -	- / -	- / -	- / -	27 / 5.885	
2.1.6) C/KC-130T ARC-210 B Kits - Organic ⁽²⁴⁾	- / -	- / -	4 / 0.798	4 / 0.837	- / -	4 / 0.837	4 / 0.879	4 / 0.923	- / -	- / -	- / -	16 / 3.437	
2.1.7) C/KC-130T Enhanced Center Wing Box B-Kits - NonOrganic ⁽²⁴⁾ <i>Installation 4 of 5</i>	- / -	- / -	- / -	1 / 4.893	- / -	1 / 4.893	2 / 9.983	2 / 10.182	2 / 10.386	2 / 10.594	8 / 44.536	17 / 90.574	
2.1.8) C/KC-130T Control Display Unit (CDU) B Kit - NonOrganic <i>Installation 5 of 5</i>	- / -	- / -	- / -	- / -	- / -	- / -	9 / 2.417	9 / 2.801	9 / 2.941	- / 0.289	- / -	27 / 8.448	
2.1.9) KC-130J Clevis Bolt/Truss Mount Kit - Organic ⁽²⁵⁾	- / -	- / -	- / -	- / -	- / -	- / -	53 / 3.003	- / -	- / -	- / -	- / -	53 / 3.003	
2.2.1) KC-130J Observer Seat NRE - Organic ⁽²⁵⁾	- / 2.435	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.435	
2.2.2) KC-130J Clevis Bolt/Truss Mount NRE - Organic ⁽²⁵⁾	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.300	- / -	- / -	- / -	- / -	- / 0.300	
2.2.3) KC-130J Cargo Winch NRE - Organic ⁽²⁵⁾	- / -	- / -	- / -	- / 3.915	- / -	- / 3.915	- / -	- / -	- / -	- / -	- / -	- / 3.915	
2.2.4) C/KC-130T Performance Enhancement NRE - Organic ⁽²⁶⁾	- / -	- / 6.770	- / 3.869	- / 0.529	- / -	- / 0.529	- / -	- / -	- / -	- / -	- / -	- / 11.168	
2.2.5) KC-130J Carbon Brakes NRE - Organic ⁽²⁶⁾	- / -	- / -	- / 2.485	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.485	
2.2.6) C/KC-130T GPS NRE - Organic ⁽²⁶⁾	- / -	- / 12.984	- / 11.375	- / 34.139	- / -	- / 34.139	- / -	- / -	- / -	- / -	- / -	- / 58.498	
2.2.7) C/KC-130T ARC-210 NRE - Organic ⁽²⁷⁾	- / -	- / -	- / 4.025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 4.025	
2.2.8) C/KC-130T Enhanced Center Wing Box NRE - Organic ⁽²⁸⁾	- / -	- / -	- / 1.358	- / 0.531	- / -	- / 0.531	- / 2.815	- / -	- / -	- / -	- / -	- / 4.704	
2.2.9) C/KC-130T Control Display Unit (CDU) NRE - Organic ⁽²⁹⁾	- / -	- / -	- / 7.219	- / 12.803	- / -	- / 12.803	- / 13.121	- / 12.528	- / 7.535	- / 7.761	- / 7.994	- / 68.961	

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Exhibit P-3a, Individual Modification: PB 2024 Navy										Date: March 2023				
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0560 / C-130 Series					Modification Number / Title: 5 / Safety/Obsolescence Upgrades (OSIP 015-17)				
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:							
Models of Systems Affected: KC-130J/T				Modification Type: Safety / Reliability / Obsolescence				Related RDT&E PEs:						
Financial Plan <small>(*) Indicates the modification is being installed organically and no installation funds are required.</small>	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total		
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)		
2.2.10) C/KC-130T Future Safety Obsolescence Upgrades - Organic ^(*) ⁽³⁰⁾	- / -	- / -	- / -	- / -	- / -	- / -	- / 17.090	- / 0.332	- / 0.916	- / 3.002	- / -	- / 11.340		
2.2.11) KC-130J Electronic Circuit Breaker Unit (ECBU) NRE - Organic ^(*)	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 4.822	- / 5.570	- / -	- / 10.392		
2.2.12) KC-130J Bus Interface Unit (BIU) NRE - Organic ^(*)	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 8.247	- / -	- / 8.247		
Subtotal: Procurement	- / 6.089	- / 21.415	- / 45.371	- / 90.036	- / -	- / 90.036	- / 100.060	- / 86.367	- / 67.364	- / 69.550	- / 60.645	- / 546.897		
Support														
3.1) KC-130J Observer Seat Support Equipment	- / 0.164	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.164		
3.2) KC-130J Observer Seat ILS ⁽³¹⁾	- / 1.103	- / 0.196	- / 0.395	- / 0.382	- / -	- / 0.382	- / 0.228	- / 0.305	- / -	- / -	- / -	- / 2.609		
3.3) KC-130J Observer Seat Other Support ⁽³²⁾	- / 1.121	- / 0.185	- / 0.373	- / 0.348	- / -	- / 0.348	- / 0.187	- / 0.322	- / -	- / -	- / -	- / 2.536		
3.4) KC-130J Carbon Brakes ILS ⁽³³⁾	- / -	- / -	- / -	- / 0.265	- / -	- / 0.265	- / 0.311	- / 0.392	- / 0.343	- / -	- / -	- / 1.311		
3.5) KC-130J Carbon Brakes Other Support	- / -	- / -	- / -	- / 0.260	- / -	- / 0.260	- / 0.246	- / 0.463	- / 0.381	- / -	- / -	- / 1.350		
3.6) C/KC-130T Performance Enhancement Other Support ⁽³⁴⁾	- / -	- / 4.098	- / 4.180	- / 4.264	- / -	- / 4.264	- / 4.349	- / 4.436	- / 4.525	- / 4.616	- / 9.510	- / 39.978		
3.7) C/KC-130T Performance Enhancement ILS ⁽³⁵⁾	- / -	- / 0.820	- / 0.836	- / 0.853	- / -	- / 0.853	- / 0.870	- / 0.887	- / 0.905	- / 0.923	- / 1.902	- / 7.996		
3.8) C/KC-130T GPS PES Support	- / -	- / -	- / 0.985	- / 1.005	- / -	- / 1.005	- / 1.025	- / 1.045	- / 1.066	- / 1.088	- / 1.109	- / 7.323		
3.9) C/KC-130T GPS ILS Support	- / -	- / -	- / 0.862	- / 0.879	- / -	- / 0.879	- / 0.897	- / 0.915	- / 0.933	- / 0.952	- / 0.971	- / 6.409		
Subtotal: Support	- / 2.388	- / 5.299	- / 7.631	- / 8.256	- / -	- / 8.256	- / 8.113	- / 8.765	- / 8.153	- / 7.579	- / 13.492	- / 69.676		
Installation														
Installation 1 of 5: C/KC-130T GPS A Kit	- / -	- / -	- / 0.384	- / 0.792	- / 0.000	- / 0.792	- / 0.816	- / 0.630	- / -	- / -	- / 0.000	- / 2.622		
Installation 2 of 5: C/KC-130T B Kit Performance Enhancement	- / -	- / -	- / -	- / 9.430	- / 0.000	- / 9.430	- / 19.353	- / 28.420	- / 28.660	- / 22.490	- / 38.748	- / 147.101		
Installation 3 of 5: C/KC-130T GPS B Kits	- / -	- / -	- / 0.385	- / 0.792	- / 0.000	- / 0.792	- / 0.815	- / 0.630	- / -	- / -	- / 0.000	- / 2.622		
Installation 4 of 5: C/KC-130T Enhanced Center Wing Box B-Kits	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 17.116	- / 14.516	- / 14.807	- / 95.271	- / 131.710		
Installation 5 of 5: C/KC-130T Control Display Unit (CDU) B Kit	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.613	- / 0.711	- / 0.732	- / 0.000	- / 2.056		
Subtotal: Installation	- / 0.000	- / -	- / 0.769	- / 11.014	- / -	- / 11.014	- / 20.984	- / 37.409	- / 43.887	- / 38.029	- / 134.019	- / 286.111		
Total														
Total Cost (Procurement + Support + Installation)	8.477	26.714	53.771	109.306	0.000	109.306	129.157	132.541	119.404	115.158	208.156	902.684		

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0560 / C-130 Series	Modification Number / Title: 5 / Safety/Obsolescence Upgrades (OSIP 015-17)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Installation 1 of 5: C/KC-130T GPS A Kit

Manufacturer Information

Manufacturer Name: TBD	Manufacturer Location: TBD
Administrative Leadtime (in Months): 10	Production Leadtime (in Months): 7

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates	Aug 2022	Dec 2022	Aug 2024	Aug 2025			
Delivery Dates	Mar 2023	Aug 2023	Mar 2025	Mar 2026			

Installation Information

Method of Implementation: [none specified]:: Installation Name: C/KC-130T GPS A Kit

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	3 / 0.232	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	3 / 0.232
FY 2023	- / -	- / -	2 / 0.152	8 / 0.792	0 / 0.000	8 / 0.792	- / -	- / -	- / -	- / -	0 / 0.000	10 / 0.944
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	8 / 0.816	- / -	- / -	- / -	0 / 0.000	8 / 0.816
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	6 / 0.630	- / -	- / -	0 / 0.000	6 / 0.630
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	5 / 0.384	8 / 0.792	0 / 0.000	8 / 0.792	8 / 0.816	6 / 0.630	- / -	- / -	0 / 0.000	27 / 2.622

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	1	1	3	-	-	4	4	-	2	3	3	-	2	2	2	-	-	-	-	-	-	-	-	-	27
Out	-	-	-	-	-	-	-	1	1	3	-	-	4	4	-	2	3	3	-	2	2	2	-	-	-	-	-	-	-	-	27

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0560 / C-130 Series	Modification Number / Title: 5 / Safety/Obsolescence Upgrades (OSIP 015-17)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Installation 2 of 5: C/KC-130T B Kit Performance Enhancement

Manufacturer Information

Manufacturer Name: New MFG - Name ⁽³⁶⁾	Manufacturer Location: New MFG - Loc
Administrative Leadtime (in Months): 3	Production Leadtime (in Months): 12

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates		Jan 2023	Jan 2024	Jan 2025	Jan 2026	Jan 2027	Jan 2028
Delivery Dates		Jan 2024	Jan 2025	Jan 2026	Jan 2027	Jan 2028	Jan 2029

Installation Information

Method of Implementation: [none specified]:: Installation Name: C/KC-130T B Kit Performance Enhancement

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	9 / 9.430	0 / 0.000	9 / 9.430	- / -	- / -	- / -	- / -	0 / 0.000	9 / 9.430
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	19 / 19.353	- / -	- / -	- / -	0 / 0.000	19 / 19.353
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	28 / 28.420	- / -	- / -	0 / 0.000	28 / 28.420
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	28 / 28.660	- / -	0 / 0.000	28 / 28.660
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	21 / 22.490	0 / 0.000	21 / 22.490
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	35 / 38.748	35 / 38.748
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	- / -
Total	- / -	- / -	- / -	9 / 9.430	0 / 0.000	9 / 9.430	19 / 19.353	28 / 28.420	28 / 28.660	21 / 22.490	35 / 38.748	140 / 147.101

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot	
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4			
In	-	-	-	-	-	-	-	-	-	-	-	4	5	-	7	6	6	-	9	9	10	-	9	9	10	-	7	7	7	28	133	
Out	-	-	-	-	-	-	-	-	-	-	-	-	4	5	-	7	6	6	-	9	9	10	-	9	9	10	-	7	7	7	35	133

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0560 / C-130 Series	Modification Number / Title: 5 / Safety/Obsolescence Upgrades (OSIP 015-17)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Installation 3 of 5: C/KC-130T GPS B Kits

Manufacturer Information

Manufacturer Name: TBD	Manufacturer Location: TBD
Administrative Leadtime (in Months): 10	Production Leadtime (in Months): 7

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates	Aug 2022	Dec 2022	Aug 2024	Aug 2025			
Delivery Dates	Mar 2023	Aug 2023	Mar 2025	Mar 2026			

Installation Information

Method of Implementation: [none specified]:: Installation Name: C/KC-130T GPS B Kits

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	3 / 0.232	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	3 / 0.232
FY 2023	- / -	- / -	2 / 0.153	8 / 0.792	0 / 0.000	8 / 0.792	- / -	- / -	- / -	- / -	0 / 0.000	10 / 0.945
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	8 / 0.815	- / -	- / -	- / -	0 / 0.000	8 / 0.815
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	6 / 0.630	- / -	- / -	0 / 0.000	6 / 0.630
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	5 / 0.385	8 / 0.792	0 / 0.000	8 / 0.792	8 / 0.815	6 / 0.630	- / -	- / -	0 / 0.000	27 / 2.622

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	1	1	3	-	-	4	4	-	2	3	3	-	2	2	2	-	-	-	-	-	-	-	-	-	27
Out	-	-	-	-	-	-	-	1	1	3	-	-	4	4	-	2	3	3	-	2	2	2	-	-	-	-	-	-	-	-	27

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0560 / C-130 Series	Modification Number / Title: 5 / Safety/Obsolescence Upgrades (OSIP 015-17)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Installation 4 of 5: C/KC-130T Enhanced Center Wing Box B-Kits

Manufacturer Information

Manufacturer Name: TBD	Manufacturer Location: TBD
Administrative Leadtime (in Months): 4	Production Leadtime (in Months): 27

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates			Jan 2024	Jan 2025	Jan 2026	Jan 2027	Jan 2028
Delivery Dates			Apr 2026	Apr 2027	Apr 2028	Apr 2029	Apr 2030

Installation Information

Method of Implementation: [none specified]:: Installation Name: C/KC-130T Enhanced Center Wing Box B-Kits

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 7.116	- / -	- / -	0 / 0.000	1 / 7.116
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 14.516	- / -	0 / 0.000	2 / 14.516
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 14.807	0 / 0.000	2 / 14.807
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 15.878	2 / 15.878
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 15.878	2 / 15.878
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	8 / 63.515	8 / 63.515
Total	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 7.116	2 / 14.516	2 / 14.807	12 / 95.271	17 / 131.710

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	2	-	-	-	2	-	12	17
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	2	-	-	-	2	12	17

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0560 / C-130 Series	Modification Number / Title: 5 / Safety/Obsolescence Upgrades (OSIP 015-17)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Installation 5 of 5: C/KC-130T Control Display Unit (CDU) B Kit

Manufacturer Information

Manufacturer Name: TBD	Manufacturer Location: TBD
Administrative Leadtime (in Months): 3	Production Leadtime (in Months): 12

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates				Jan 2025	Jan 2026	Jan 2027	
Delivery Dates				Mar 2026	Mar 2027	Mar 2028	

Installation Information

Method of Implementation: [none specified]:: Installation Name: C/KC-130T Control Display Unit (CDU) B Kit

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	9 / 0.613	- / -	- / -	0 / 0.000	9 / 0.613
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	9 / 0.711	- / -	0 / 0.000	9 / 0.711
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	9 / 0.732	0 / 0.000	9 / 0.732
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	- / -	- / -	- / -	- / -	9 / 0.613	9 / 0.711	9 / 0.732	0 / 0.000	27 / 2.056

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot								
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4										
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	3	3	-	3	3	3	-	3	3	3	-	-	-	-	-	-	-	-	-	27
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	3	3	-	3	3	3	-	3	3	3	-	3	3	3	-	-	-	3	27

Footnotes:
 (19) 1.1.1: Procurement of validation/verification kits begins in FY24
 (20) 1.1.3: FY 2024 funding realigned to support CDU NRE efforts due to emergent obsolescence issues.

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0560 / C-130 Series	Modification Number / Title: 5 / Safety/Obsolescence Upgrades (OSIP 015-17)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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- ⁽²¹⁾ 2.1.1: FY 2023 reflects initial procurement of performance enhancement kits (Qty 9). Kits were initially planned for FY2022, but were reduced from 24 kits to 0 kits due to departmental reduction for FY22 OMNIBUS. FY 2024 quantity increase reflects updated planned amount of performance enhancement kit procurements (Qty 19).
- ⁽²²⁾ 2.1.3 Increase to support ramp up to full rate production of Observer Kit B-Kits in FY24-FY25.
- ⁽²³⁾ 2.1.5: Increase in FY 2023 and FY 2024 to reflect updated pricing of GPS B-Kits.
- ⁽²⁴⁾ 2.1.7: Increase in FY24 due to DON24 funding plus up to fund Fat Albert Center Wing Box (CWB) kit procurement.
- ⁽²⁵⁾ 2.2.3: Begins FY24 NRE efforts to replace existing KC-130J Cargo Winch.
- ⁽²⁶⁾ FY 2022 increase to upgrade one (1) C/KC-130T trainer to reflect current fleet configuration. FY 2023 increase to reflect increased GPS Legacy C-130 NRE efforts/requirements. FY 2024 increase to upgrade two (2) C/KC-130T trainers to reflect current fleet configuration (including GPS upgrades) and modifying one (1) C/KC-130T training device to receive GPS upgrade).
- ⁽²⁷⁾ 2.2.7 FY 2023 funding to support operational assessment and certification of ARC-210 system on C/KC-130T.
- ⁽²⁸⁾ 2.2.8: Funding realignment to support FY24 DON24 plus up to fund Fat Albert Center Wing Box (CWB) NRE.
- ⁽²⁹⁾ 2.2.9: Funding realigned for CDU NRE beginning in FY 2023 vice FY 2024 to address emergent obsolescence issues.
- ⁽³⁰⁾ 2.2.10: High Frequency Radio (HF Radio), Radar, Tactical Air Navigation System (TACAN), Very High Frequency Omni-Directional Range Instrumental Landing System (VOR-ILS).
- ⁽³¹⁾ 3.2: Funding was increased to support production ramp up and fielding of kits.
- ⁽³²⁾ 3.3: Funding was increased to support production ramp up and fielding of kits.
- ⁽³³⁾ 3.4: FY24 increase due to initial ILS support for Carbon Brakes.
- ⁽³⁴⁾ 3.6: FY 2024 increase to support additional C/KC-130T Performance Enhancement support efforts.
- ⁽³⁵⁾ 3.7: FY 2024 increase to support additional C/KC-130T Performance Enhancement integrated logistics support efforts.
- ⁽³⁶⁾ FY 2024 funding to support initial B-Kit Performance Enhancement installations. Installs intially scheduled to begin in FY 2023, but were delayed to FY 2024 as a result of FY 2022 OMNIBUS reduction which delayed B-Kit Performance Enhancement kit procurement until FY 2023.

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Exhibit P-3a, Individual Modification: PB 2024 Navy	Date: March 2023
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Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0560 / C-130 Series	Modification Number / Title: 6 / Inactive OSIPs
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ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	371.383	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	371.383
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	371.383	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	371.383
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	371.383	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	371.383

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Inactive OSIPs prior year totals.

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Exhibit P-3a, Individual Modification: PB 2024 Navy										Date: March 2023		
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0560 / C-130 Series						Modification Number / Title: 6 / Inactive OSIPs		
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:					
Models of Systems Affected: [No Model Specified]				Modification Type: TBD				Related RDT&E PEs:				
Financial Plan <small>(*) Indicates the modification is being installed organically and no installation funds are required.</small>	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>
Procurement												
1.1.1) Inactive OSIPs - Organic ^(*)	- / 371.383	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 371.383
<i>Subtotal: Procurement</i>	- / 371.383	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 371.383
Installation												
<i>Subtotal: Installation</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total												
Total Cost (Procurement + Support + Installation)	371.383	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	371.383

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Exhibit P-40, Budget Line Item Justification: PB 2024 Navy **Date:** March 2023

Appropriation / Budget Activity / Budget Sub Activity: 1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft	P-1 Line Item Number / Title: 0561 / Flt Elect Wrfr Supt Grp (FEWSG)
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	102.475	0.734	0.695	0.651	0.000	0.651	0.665	0.679	0.693	0.707	0.946	108.245
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	102.475	0.734	0.695	0.651	0.000	0.651	0.665	0.679	0.693	0.707	0.946	108.245
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	102.475	0.734	0.695	0.651	0.000	0.651	0.665	0.679	0.693	0.707	0.946	108.245

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

This line item funds Fleet Electronic Warfare Support Group (FEWSG) installations. These installations are modifications to fleet systems based on the Adversary and FEWSG Electronic Attack Digital Radio Frequency Memory (DRFM) Roadmap. The program focuses on the FEWSG DRFM modification schedule and support of the required engineering and logistics to accomplish these upgrades. These systems provide Adversarial peer and near peer Electronic Warfare (EW) effects on USN sensor systems. USN operators must overcome these effects to demonstrate spectrum dominance and electromagnetic maneuver warfare (EMW) in an EW contested environment.

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Exhibit P-40, Budget Line Item Justification: PB 2024 Navy **Date:** March 2023

Appropriation / Budget Activity / Budget Sub Activity: 1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft	P-1 Line Item Number / Title: 0561 / Flt Elect Wrfr Supt Grp (FEWSG)
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	1 / AN/AST-6/9(V), AN/ULQ-21/24, AN/ALQ-237, AN/ALQ-167 (OSIP 119-83) (RELIABILITY, MAINTAINABILITY, CAPABILITY)				- / 102.475	- / 0.734	- / 0.695	- / 0.651	- / 0.000	- / 0.651
P-40	Total Gross/Weapon System Cost				- / 102.475	- / 0.734	- / 0.695	- / 0.651	- / 0.000	- / 0.651
Exhibits Schedule					FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	1 / AN/AST-6/9(V), AN/ULQ-21/24, AN/ALQ-237, AN/ALQ-167 (OSIP 119-83) (RELIABILITY, MAINTAINABILITY, CAPABILITY)				- / 0.665	- / 0.679	- / 0.693	- / 0.707	- / 0.946	- / 108.245
P-40	Total Gross/Weapon System Cost				- / 0.665	- / 0.679	- / 0.693	- / 0.707	- / 0.946	- / 108.245

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

Justification:
 The FY 2024 request supports the FEWSG modification schedule and the required engineering and logistics to accomplish these upgrades. Modifications to systems provide increased system availability and reduced cost to squadron maintenance efforts through incorporation of higher reliability components. Modifications incorporate newer technologies that did not previously exist, to enable pacing with high end threat EW systems presentation.

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0561 / Flt Elect Wrfr Supt Grp (FEWSG)	Modification Number / Title: 1 / AN/AST-6/9(V), AN/ULQ-21/24, AN/ ALQ-237, AN/ALQ-167 (OSIP 119-83)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	102.475	0.734	0.695	0.651	0.000	0.651	0.665	0.679	0.693	0.707	0.946	108.245
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	102.475	0.734	0.695	0.651	0.000	0.651	0.665	0.679	0.693	0.707	0.946	108.245
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	102.475	0.734	0.695	0.651	0.000	0.651	0.665	0.679	0.693	0.707	0.946	108.245

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Installations are modifications to fleet systems based on the FEWSG program requirements. The program focuses on the FEWSG modification schedule and support of the required engineering and logistics to accomplish the upgrades.

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Exhibit P-3a, Individual Modification: PB 2024 Navy											Date: March 2023		
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0561 / Flt Elect Wrfr Supt Grp (FEWSG)				Modification Number / Title: 1 / AN/AST-6/9(V), AN/ULQ-21/24, AN/ ALQ-237, AN/ALQ-167 (OSIP 119-83)					
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: NOT APPLICABLE				Modification Type: RELIABILITY, MAINTAINABILITY, CAPABILITY			Related RDT&E PEs:						
Financial Plan	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
<i>Modification Item 1 of 1: AN/AST-6/9(V), AN/ULQ-21/24, AN/ALQ-237, AN/ALQ-167 (OSIP 119-83)</i>													
B Kits													
Recurring													
1.1.1) Install Equipment (B Kits) - Organic ⁽¹⁾	1,057 / 77.109	4 / 0.357	4 / 0.349	3 / 0.297	- / -	3 / 0.297	3 / 0.304	3 / 0.314	3 / 0.322	3 / 0.331	5 / 0.563	1,085 / 79.946	
<i>Subtotal: Recurring</i>	- / 77.109	- / 0.357	- / 0.349	- / 0.297	- / -	- / 0.297	- / 0.304	- / 0.314	- / 0.322	- / 0.331	- / 0.563	- / 79.946	
Non-Recurring													
1.2.1) Install Equipment N/R - Organic	- / 2.447	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.447	
<i>Subtotal: Non-Recurring</i>	- / 2.447	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 2.447	
<i>Subtotal: AN/AST-6/9(V), AN/ULQ-21/24, AN/ALQ-237, AN/ALQ-167 (OSIP 119-83)</i>	1,057 / 79.556	4 / 0.357	4 / 0.349	3 / 0.297	- / -	3 / 0.297	3 / 0.304	3 / 0.314	3 / 0.322	3 / 0.331	5 / 0.563	1,085 / 82.393	
<i>Subtotal: Procurement, All Modification Items</i>	- / 79.556	- / 0.357	- / 0.349	- / 0.297	- / -	- / 0.297	- / 0.304	- / 0.314	- / 0.322	- / 0.331	- / 0.563	- / 82.393	
Support (All Modification Items)													
2.1) Engineering Change Orders	- / 2.928	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.928	
2.2) Data	- / 0.406	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.406	
2.3) Training Equipment	3 / 4.815	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3 / 4.815	
2.4) Support Equipment	- / 5.510	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 5.510	
2.5) ILS	- / 3.392	- / 0.114	- / 0.103	- / 0.105	- / -	- / 0.105	- / 0.107	- / 0.108	- / 0.110	- / 0.112	- / 0.114	- / 4.265	
2.6) Other Support	- / 5.868	- / 0.263	- / 0.243	- / 0.249	- / -	- / 0.249	- / 0.254	- / 0.257	- / 0.261	- / 0.264	- / 0.269	- / 7.928	
<i>Subtotal: Support</i>	- / 22.919	- / 0.377	- / 0.346	- / 0.354	- / -	- / 0.354	- / 0.361	- / 0.365	- / 0.371	- / 0.376	- / 0.383	- / 25.852	
Installation													
<i>Subtotal: Installation</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
Total													
Total Cost (Procurement + Support + Installation)	102.475	0.734	0.695	0.651	0.000	0.651	0.665	0.679	0.693	0.707	0.946	108.245	

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0561 / Flt Elect Wrfr Supt Grp (FEWSG)	Modification Number / Title: 1 / AN/AST-6/9(V), AN/ULQ-21/24, AN/ ALQ-237, AN/ALQ-167 (OSIP 119-83)
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:
Modification Item 1 of 1: AN/AST-6/9(V), AN/ULQ-21/24, AN/ALQ-237, AN/ALQ-167 (OSIP 119-83)		

Footnotes:
(1) 1.1.1 (Install Equipment B Kits) FY 2024 changed from (QTY) 4 to (QTY) 3 due to higher unit cost of key component Field Programmable Gate Arrays (FPGA) chips.

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Exhibit P-40, Budget Line Item Justification: PB 2024 Navy **Date: March 2023**

Appropriation / Budget Activity / Budget Sub Activity: 1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft	P-1 Line Item Number / Title: 0562 / Cargo/Transport Acft Series
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	323.317	5.371	10.902	13.930	0.000	13.930	13.252	13.461	13.706	13.980	25.930	433.849
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	323.317	5.371	10.902	13.930	0.000	13.930	13.252	13.461	13.706	13.980	25.930	433.849
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	323.317	5.371	10.902	13.930	0.000	13.930	13.252	13.461	13.706	13.980	25.930	433.849

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

This line item funds modifications to the following cargo and transport aircraft: C-40A (QTY 17), C-20G (QTY 2), C-37A (QTY 1), C-37B (QTY 3), C-26D (QTY 7), UC-35D (QTY 10), UC-12F (QTY 10), UC-12M (QTY 9), UC-12W (QTY 9), and RC-12M (QTY 1).

The C-40A Clipper, C-20G Gulfstream IV, C-37A Gulfstream V, C-37 B Gulfstream 550, and UC-35D Cessna Encore are commercial twin jet transport aircraft that provide time-critical medium lift logistic support for the fleet combatant commanders. The C-40A can accommodate 121 passengers, or 8 pallets of cargo, or a combination configuration of 3 pallets and 70 passengers with a range of 3,400 nautical miles. The C-20G can accommodate 26 passengers or three pallets of cargo, or a combination of pallets and passengers with a range of 5,100 nautical miles. The C-37 provides worldwide executive transport to Secretary of the Navy, Chief of Naval Operations, Commandant of the Marine Corps, and Fleet Commanders. The UC-35 provides transport for high priority passenger/cargo missions with time, place or mission sensitive requirements. The UC-35 can accommodate 6 passengers or 1,200 pounds of cargo with a range of 1,300 nautical miles. The C-12 King Air and C-26 Metroliner variants are commercial twin turbo-prop aircraft that provide shorter-range light lift passenger/cargo transport and range control missions. The C-12 is capable of carrying 6 passengers or maximum cargo capacity of 2,850 pounds, with a range of 1,075 nautical miles. The C-26 is capable of carrying 19 passengers 1,300 nautical miles.

For FY15 - FY24, Communication, Navigation, and Surveillance Air Traffic Management (CNS/ATM) modifications in support of Federal Aviation Administration's (FAA) Next Generation Air Transportation System (NextGen) Block 3 for C-40A, UC-35D, C-26, and C-12 include Automatic Dependent Surveillance to DO260B (ADS-B) standards, Data Link recording capability that is tied to the Cockpit Voice Recorder, Expansion of data link systems/services based on global operational data-link mandates, integration of AN/APX-119 IFF Mode 5 with new digital control panel, Performance based navigation (RNAV/RNP), weather radar integration, L5 GLS capabilities, SATCOM upgrades required to meet new Iridium or International Maritime Satellite (INMARSAT) requirements.

For FY21 - FY27 NextGen Block 4 modifications for C-40A, C-20G, C-37A/B, UC-35D and C-12 include Flight Management System upgrades to meet FAA advanced RNP minimum performance standards, New Navigation GPS receivers to meet ARINC 743B standards, and enhanced flight vision systems to improve operational safety in low visibility conditions for approaches and takeoffs required to meet FAA NextGen and European Aviation Safety Agency (EASA) Single European Sky airspace initiatives.

Secondary Distribution	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028
Navy									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	-	-	3.016	-	3.016	2.015	2.016	2.018	2.020

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2024 Navy **Date:** March 2023

Appropriation / Budget Activity / Budget Sub Activity: 1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft	P-1 Line Item Number / Title: 0562 / Cargo/Transport Acft Series
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A

Secondary Distribution		FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028
NR	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	5.371	10.902	10.914	-	10.914	11.237	11.445	11.688	11.960
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	5.371	10.902	13.930	-	13.930	13.252	13.461	13.706	13.980

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2024 Navy **Date: March 2023**

Appropriation / Budget Activity / Budget Sub Activity: 1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft	P-1 Line Item Number / Title: 0562 / Cargo/Transport Acft Series
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	1 / FEDERAL AVIATION ADMINISTRATION (FAA) CONFIGURATION UPDATES RESERVE FORCES (OSIP 071-86) (SAFETY/RELIABILITY)				- / 22.608	- / 0.000	- / 0.025	- / 0.025	- / 0.000	- / 0.025
P-3a	2 / COMMUNICATION, NAVIGATION AND SURVEILLANCE - AIR TRAFFIC MANAGEMENT (CNS-ATM) RESERVE FORCES (OSIP 0 (SAFETY/RELIABILITY)				- / 214.797	- / 3.156	- / 10.852	- / 12.180	- / 0.000	- / 12.180
P-3a	3 / Safety/Obsolescence Upgrades (013-16) (SAFETY/RELIABILITY)				- / 10.094	- / 2.215	- / 0.025	- / 1.725	- / 0.000	- / 1.725
P-3a	4 / RESERVE FORCES Inactive OSIPs (TBD)				- / 75.818	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000
P-40	Total Gross/Weapon System Cost				- / 323.317	- / 5.371	- / 10.902	- / 13.930	- / 0.000	- / 13.930

Exhibits Schedule					FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	1 / FEDERAL AVIATION ADMINISTRATION (FAA) CONFIGURATION UPDATES RESERVE FORCES (OSIP 071-86) (SAFETY/RELIABILITY)				- / 0.025	- / 0.025	- / 0.000	- / 0.000	- / 0.100	- / 22.808
P-3a	2 / COMMUNICATION, NAVIGATION AND SURVEILLANCE - AIR TRAFFIC MANAGEMENT (CNS-ATM) RESERVE FORCES (OSIP 0 (SAFETY/RELIABILITY)				- / 12.990	- / 13.211	- / 13.706	- / 13.980	- / 21.740	- / 316.612
P-3a	3 / Safety/Obsolescence Upgrades (013-16) (SAFETY/RELIABILITY)				- / 0.237	- / 0.225	- / 0.000	- / 0.000	- / 4.090	- / 18.611
P-3a	4 / RESERVE FORCES Inactive OSIPs (TBD)				- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 75.818
P-40	Total Gross/Weapon System Cost				- / 13.252	- / 13.461	- / 13.706	- / 13.980	- / 25.930	- / 433.849

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

Justification:
 The FY 2024 request funds FAA Service Bulletin compliance, required Communication, Navigation and Surveillance / Air Traffic Management (CNS/ATM) modifications, and safety/obsolescence upgrades for Cargo Transport Aircraft.

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0562 / Cargo/Transport Acft Series	Modification Number / Title: 1 / FEDERAL AVIATION ADMINISTRATION (FAA) CONFIGURATION UPDATES RESERVE FORCES (OSIP 071-86)

ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:					
Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	22.608	0.000	0.025	0.025	0.000	0.025	0.025	0.025	0.000	0.000	0.100	22.808
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	22.608	0.000	0.025	0.025	0.000	0.025	0.025	0.025	0.000	0.000	0.100	22.808
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	22.608	0.000	0.025	0.025	0.000	0.025	0.025	0.025	0.000	0.000	0.100	22.808
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Federal Aviation Regulations require manufacturers of commercial aircraft and associated systems/subsystems to investigate discrepant conditions, failures, and potential safety problems reported by all operators. The results of these investigations with recommended corrective action are reviewed/authorized by Federal Aviation Administration (FAA) designated representatives and provided to all operators as Service Bulletins. Each Service Bulletin is a complete technical directive that provides corrective change information or detailed modification instructions. To ensure safe, reliable, FAA/Navy certified aircraft and to provide a program that will assure continued life extension at minimum cost, the Navy must maintain configuration and integrity compatible with FAA certified commercial models by incorporation of applicable Service Bulletins. The incorporation of certain Service Bulletins also serves to preclude extensive repairs/repetitive inspections. Crew equipment requirements in accordance with FAA directives and/or Navy requirements will be incorporated to ensure maximum safety in case of emergency. Specific examples of systems that will require modification to conform to FAA Service Bulletins and Directives include Brakes, Landing Gear Systems, Flight Controls, Engine Modifications, Propeller Modifications, Airframe Modifications, Hydraulics, Electrical/Mechanical Systems & Components, Fuel Systems, Software Modifications/Upgrades, Fire Detection Systems, Interior Environmental Systems, Pressurization Systems, Oxygen Systems, Pitot-Static Systems and Smoke/Fire Detection Systems. Modifications budgeted in this Operational Safety and Improvement Program include the incorporation of Service Bulletins/Directives requirements into the C-40A, C-20G, C-37A, C-37B, C-26D, UC-35D, UC-12F, UC-12M, UC-12W and RC-12M aircraft.

Development Status/Major Development Milestones: Service Bulletins are reviewed for possible incorporation on an as required basis. Prototype verification has been previously accomplished and approved by the FAA.

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0562 / Cargo/Transport Acft Series	Modification Number / Title: 1 / FEDERAL AVIATION ADMINISTRATION (FAA) CONFIGURATION UPDATES RESERVE FORCES (OSIP 071-86)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Models of Systems Affected: CARGO TRANSPORT AC SERIES	Modification Type: SAFETY/RELIABILITY	Related RDT&E PEs:
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Financial Plan	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)

Procurement												
<i>Modification Item 1 of 1:</i> FEDERAL AVIATION ADMINISTRATION (FAA) CONFIGURATION UPDATES RESERVE FORCES (OSIP 071-86)												
A Kits												
Recurring												
1.1.1) Tech Directive Implementation - Organic	- / 0.400	- / -	- / 0.025	- / 0.025	- / -	- / 0.025	- / 0.025	- / 0.025	- / -	- / -	- / 0.100	- / 0.600
1.1.2) Archived Cost Elements - Organic	- / 17.478	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 17.478
Subtotal: Recurring	- / 17.878	- / -	- / 0.025	- / 0.025	- / -	- / 0.025	- / 0.025	- / 0.025	- / -	- / -	- / 0.100	- / 18.078
Non-Recurring												
1.2.1) Installation Kits N/R - Organic	- / 2.832	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.832
Subtotal: Non-Recurring	- / 2.832	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 2.832
Subtotal: FEDERAL AVIATION ADMINISTRATION (FAA) CONFIGURATION UPDATES RESERVE FORCES (OSIP 071-86)	- / 20.710	- / -	- / 0.025	- / 0.025	- / -	- / 0.025	- / 0.025	- / 0.025	- / -	- / -	- / 0.100	- / 20.910
Subtotal: Procurement, All Modification Items	- / 20.710	- / -	- / 0.025	- / 0.025	- / -	- / 0.025	- / 0.025	- / 0.025	- / -	- / -	- / 0.100	- / 20.910

Support (All Modification Items)												
3.1) Engineering Change Orders	- / 0.360	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.360
3.2) Data	- / 0.293	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.293
3.3) Training Equipment	- / 0.206	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.206
3.5) ILS	- / 0.016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.016
3.6) Other Support	- / 0.816	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.816
3.7) Interim Contractor Support	- / 0.207	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.207
Subtotal: Support	- / 1.898	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 1.898

Installation												
Subtotal: Installation	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -

Total												
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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0562 / Cargo/Transport Acft Series	Modification Number / Title: 1 / FEDERAL AVIATION ADMINISTRATION (FAA) CONFIGURATION UPDATES RESERVE FORCES (OSIP 071-86)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Models of Systems Affected: CARGO TRANSPORT AC SERIES	Modification Type: SAFETY/RELIABILITY	Related RDT&E PEs:
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Financial Plan	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Total Cost (Procurement + Support + Installation)	22.608	0.000	0.025	0.025	0.000	0.025	0.025	0.025	0.000	0.000	0.100	22.808

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0562 / Cargo/Transport Acft Series	Modification Number / Title: 1 / FEDERAL AVIATION ADMINISTRATION (FAA) CONFIGURATION UPDATES RESERVE FORCES (OSIP 071-86)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Modification Item 1 of 1: FEDERAL AVIATION ADMINISTRATION (FAA) CONFIGURATION UPDATES RESERVE FORCES (OSIP 071-86)

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UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0562 / Cargo/Transport Acft Series	Modification Number / Title: 2 / COMMUNICATION, NAVIGATION AND SURVEILLANCE - AIR TRAFFIC MANAGEMENT (CNS-ATM) RESERVE FORCES (OSIP 0

ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:					
Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	214.797	3.156	10.852	12.180	0.000	12.180	12.990	13.211	13.706	13.980	21.740	316.612
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	214.797	3.156	10.852	12.180	0.000	12.180	12.990	13.211	13.706	13.980	21.740	316.612
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	214.797	3.156	10.852	12.180	0.000	12.180	12.990	13.211	13.706	13.980	21.740	316.612
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

World-wide airspace congestion and communication bandwidth saturation has led the International Civil Aviation Organization to restructure the world-wide airspace structure to improve safety through a series of equipment and performance mandates implemented by regional authorities. The Type/Models/Series cited below will be required to comply with Communication, Navigation and Surveillance - Air Traffic Management (CNS-ATM)/Next Generation Air Transportation System (NextGen) mandates to retain the Navy's capability to operate these aircraft worldwide. Failure to comply with these time-phased mandates will result in being denied access to high-volume airspace (routing and altitudes) and airfields, and result in circuitous routing, sub optimal altitudes, and degraded operational capability.

To minimize the impact of successive modifications and maximize aircraft availability, a block upgrade approach has been taken during this budget submit. Block upgrades have been prioritized and phased to meet regional mandates just in time to ensure that commercial CNS-ATM/NextGen solutions are available off the shelf to minimize non-recurring engineering associated with Federal Aviation Administration supplemental type certification. In order to incorporate CNS-ATM/NextGen mandates several older aircraft (all C-26 and C-12) required the installation of a digital flight management and communication system.

CNS-ATM/NextGen capabilities associated with each Block Upgrade are listed below:

C-26D: Block 3 - Upgrade Satellite communication (SATCOM) capability (Iridium or INMARSAT) and services to meet new Inmarsat-4 (I4) requirements.

C-40A: Block 3 - Upgrade SATCOM capability (Iridium or INMARSAT) and services to meet new Inmarsat-4 (I4) requirements; Automatic Dependent Surveillance to DO260B standards, Integration of AN/APX-119 IFF Mode 5 with new digital control panel, multi mode receiver (GLU 2100), Data Link recording enhancements, Performance-based navigation (PBN), Area Navigation (RNAV), and weather radar enhancement. Protected Mode and Baseline Controller Pilot Data Link Communication (PM-CPDLC) and Automatic Dependent Surveillance-Contract (ADS-C) datalink, and VHF Data Link Mode 2. Block 4 - Updated Display Electronic Unit to raise to current standard, Flight Management System upgrades, Flight Management Computer Static Random-Access Memory (SRAM) to meet FAA advanced RNP minimum performance standards, New Navigation GPS receivers to meet ARINC 743B standards and enhanced flight vision systems to improve operational safety in low visibility conditions for approaches and takeoffs required to meet FAA NextGen and European Aviation Safety Agency (EASA) Single Sky airspace initiatives.

C-37A/B: Block 4 - Aircraft Flight Management System upgrades to meet FAA advanced RNP minimum performance standards, AN/APX-119 IFF Mode 5 with new digital control panel, New Navigation GPS receivers to meet ARINC 743B standards, and enhanced flight vision systems to improve operational safety in low visibility conditions for approaches and takeoffs required to meet FAA NextGen and European Aviation Safety Agency (EASA) Single Sky airspace initiatives.

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0562 / Cargo/Transport Acft Series	Modification Number / Title: 2 / COMMUNICATION, NAVIGATION AND SURVEILLANCE - AIR TRAFFIC MANAGEMENT (CNS-ATM) RESERVE FORCES (OSIP 0
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:
<p>UC-35D: Block 3 Integration of AN/APX-119 IFF Mode 5 with new digital control panel. Block 4 - New Navigation GPS receivers to meet ARINC 743B standards and enhanced flight vision systems to improve operational safety in low visibility conditions for approaches and takeoffs required to meet FAA NextGen and European Aviation Safety Agency (EASA) Single Sky airspace initiatives.</p> <p>C-20G: Block 4 - Aircraft Flight Management System upgrades to meet FAA advanced RNP minimum performance standards, New Navigation GPS receivers to meet ARINC 743B standards and enhanced flight vision systems to improve operational safety in low visibility conditions for approaches and takeoffs required to meet FAA NextGen and European Aviation Safety Agency (EASA) Single Sky airspace initiatives.</p> <p>C-12F/M: Block 3 - Upgrade SATCOM capability (Iridium or INMARSAT) and services to meet new Inmarsat-4 (I4) requirements. Block 4 - Aircraft Flight Management System upgrades to meet FAA advanced RNP minimum performance standards, New Navigation GPS receivers to meet ARINC 743B standards and enhanced flight vision systems to improve operational safety in low visibility conditions for approaches and takeoffs required to meet FAA NextGen and European Aviation Safety Agency (EASA) Single Sky airspace initiatives.</p> <p>UC-12W: Block 3 Integration of AN/APX-119 IFF Mode 5 with new digital control. Upgrade SATCOM capability (Iridium or INMARSAT) and services to meet new Inmarsat-4 (I4) requirements. Block 4 - Aircraft Flight Management System upgrades to meet FAA advanced RNP minimum performance standard, New Navigation GPS receivers to meet ARINC 743B standards and enhanced flight vision systems to improve operational safety in low visibility conditions for approaches and takeoffs required to meet FAA NextGen and European Aviation Safety Agency (EASA) Single Sky airspace initiatives. Next generation Flight deck upgrades, to include Pro Line Fusion.</p>		

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0562 / Cargo/Transport Acft Series	Modification Number / Title: 2 / COMMUNICATION, NAVIGATION AND SURVEILLANCE - AIR TRAFFIC MANAGEMENT (CNS-ATM) RESERVE FORCES (OSIP 0

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Models of Systems Affected: CARGO TRANSPORT AC SERIES	Modification Type: SAFETY/RELIABILITY	Related RDT&E PEs:
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Financial Plan <small>(*) Indicates the modification is being installed organically and no installation funds are required.</small>	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Procurement												
1.1.1) Block 3 (UC-35) - Organic ^(*)	- / -	- / -	- / -	1 / 0.030	- / -	1 / 0.030	- / -	- / -	- / -	- / -	- / -	1 / 0.030
1.1.2) Block 4 (C-12) - Organic ^(*)	2 / 0.110	- / -	- / -	- / -	- / -	- / -	4 / 1.048	- / -	- / -	- / -	- / -	6 / 1.158
1.1.3) Block 4 (C-40) - Organic ^{(*) (1)}	- / -	4 / 1.896	- / -	3 / 0.729	- / -	3 / 0.729	1 / 0.200	3 / 0.900	- / -	- / -	- / -	11 / 3.725
1.1.4) Block 4 (C-37) - Organic ^(*)	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	10 / 2.430	- / -	10 / 2.430
1.1.5) Block 4 (UC-35) - Organic ^(*)	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	8 / 3.201	8 / 3.201
1.1.6) Archive Mods - Organic ^(*)	- / 85.650	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 85.650
1.2.1) Block 3 (UC-35) Non Recurring - Organic ^{(*) (2)}	- / -	- / -	- / -	- / 0.346	- / -	- / 0.346	- / -	- / -	- / -	- / -	- / -	- / 0.346
1.2.2) Installation Kits N/R - Organic ^(*)	- / 36.855	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 6.275	- / 43.130
2.1.1) Block 4 (UC-35) - Organic ^(*)	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.740	2 / 0.740
2.1.2) Block 3 (C-26) - Organic ^(*)	1 / 0.269	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.269
2.1.3) Block 4 (C-12) - Organic ^{(*) (3)}	1 / 0.300	- / -	- / -	1 / 1.427	- / -	1 / 1.427	4 / 3.960	4 / 5.000	1 / 1.200	- / -	- / -	11 / 11.887
2.1.4) Block 4 (C-40) - Organic ^(*)	1 / 0.300	- / -	7 / 2.366	3 / 1.003	- / -	3 / 1.003	9 / 2.600	2 / 0.600	3 / 5.769	4 / 6.069	- / -	29 / 18.707
2.1.5) Block 4 (C-37) - Organic ^(*)	1 / 0.300	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.400	- / -	1 / 0.450	3 / 1.150
2.1.6) Block 4 (C-20) - Organic ^(*)	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.670	1 / 0.670
2.1.7) Block 3 (C-40) - Organic ^{(*) (4)}	- / -	- / -	8 / 5.802	6 / 4.526	- / -	6 / 4.526	1 / 2.015	1 / 2.016	1 / 2.018	1 / 2.020	1 / 0.260	19 / 18.657
2.1.8) Block 3 (UC-35) - Organic ^{(*) (5)}	- / -	- / -	- / -	10 / 1.160	- / -	10 / 1.160	- / -	- / -	- / -	- / -	- / -	10 / 1.160
2.1.9) Archived Mods - Organic ^(*)	- / 55.703	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 55.703
2.2.1) Installation Equipment N/R - Organic ^(*)	- / 4.294	- / -	- / 1.200	- / 1.236	- / -	- / 1.236	- / 1.600	- / 3.083	- / 2.469	- / 1.545	- / 0.655	- / 16.082
Subtotal: Procurement	- / 183.781	- / 1.896	- / 9.368	- / 10.457	- / -	- / 10.457	- / 11.423	- / 11.599	- / 11.856	- / 12.064	- / 12.251	- / 264.695

Support												
3.1) Engineering Change Orders	- / 0.160	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.160
3.2) Data	- / 6.715	- / 0.189	- / 0.210	- / 0.375	- / -	- / 0.375	- / 0.373	- / 0.353	- / 0.337	- / 0.342	- / 2.131	- / 11.025
3.3) Training Equipment	- / 1.778	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.821	- / 3.599
3.4) Support Equipment	- / 0.626	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.061	- / 1.687

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0562 / Cargo/Transport Acft Series	Modification Number / Title: 2 / COMMUNICATION, NAVIGATION AND SURVEILLANCE - AIR TRAFFIC MANAGEMENT (CNS-ATM) RESERVE FORCES (OSIP 0

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Models of Systems Affected: CARGO TRANSPORT AC SERIES	Modification Type: SAFETY/RELIABILITY	Related RDT&E PEs:
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Financial Plan <small>(*) Indicates the modification is being installed organically and no installation funds are required.</small>	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
3.5) ILS	- / 5.106	- / 0.368	- / 0.466	- / 0.517	- / -	- / 0.517	- / 0.453	- / 0.580	- / 0.711	- / 0.760	- / 1.202	- / 10.163
3.6) Other Support	- / 16.631	- / 0.703	- / 0.808	- / 0.831	- / -	- / 0.831	- / 0.741	- / 0.679	- / 0.802	- / 0.814	- / 3.274	- / 25.283
<i>Subtotal: Support</i>	<i>- / 31.016</i>	<i>- / 1.260</i>	<i>- / 1.484</i>	<i>- / 1.723</i>	<i>- / -</i>	<i>- / 1.723</i>	<i>- / 1.567</i>	<i>- / 1.612</i>	<i>- / 1.850</i>	<i>- / 1.916</i>	<i>- / 9.489</i>	<i>- / 51.917</i>
Installation												
<i>Subtotal: Installation</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>
Total												
Total Cost (Procurement + Support + Installation)	214.797	3.156	10.852	12.180	0.000	12.180	12.990	13.211	13.706	13.980	21.740	316.612

- Footnotes:**
- (1) 1.1.3: FY24 funding to continue Flight Management System upgrades for C-40 aircraft.
 - (2) 1.2.1 FY24 increase for UC-35D Block 3 Mode 5 NRE efforts due to USMC funding increase.
 - (3) 2.1.3: FY24 funding to continue Flight Management Systems upgrades for C-12 aircraft.
 - (4) Unit cots increase from FY 23 to FY24 is driven by inflation
 - (5) 2.1.8 FY24 increase for UC-35D Mode 5 kit procurements due to USMC funding increase.

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0562 / Cargo/Transport Acft Series	Modification Number / Title: 3 / Safety/Obsolescence Upgrades (013-16)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	10.094	2.215	0.025	1.725	0.000	1.725	0.237	0.225	0.000	0.000	4.090	18.611
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	10.094	2.215	0.025	1.725	0.000	1.725	0.237	0.225	0.000	0.000	4.090	18.611
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	10.094	2.215	0.025	1.725	0.000	1.725	0.237	0.225	0.000	0.000	4.090	18.611

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

This line item funds modifications to the following cargo and transport airlift aircraft: C-40A, C-20G, C-37A/B, UC-35D, C-26D, UC-12B/F/M/W, RC-12M.

To ensure preservation of the airlift capabilities world-wide, this Safety, Reliability and Obsolescence Improvement OSIP provides funding to correct deficiencies that adversely affect aircraft safety, reliability and/or availability; specifically deficiencies that are not corrected through the existing FAA commercial service bulletin process because they are peculiar systems/equipment to the Navy. Navy peculiar aircraft systems include but are not limited to navigation systems, communication, survivability equipment, and cargo/passenger loading and carriage systems.

Modifications will support all readiness, obsolescence, and safety of flight improvements to existing Navy peculiar aircraft systems.

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Exhibit P-3a, Individual Modification: PB 2024 Navy										Date: March 2023				
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0562 / Cargo/Transport Acft Series					Modification Number / Title: 3 / Safety/Obsolescence Upgrades (013-16)				
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:							
Models of Systems Affected: CARGO TRANSPORT AC SERIES				Modification Type: SAFETY/RELIABILITY				Related RDT&E PEs:						
Financial Plan	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total		
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)		
Procurement														
<i>Modification Item 1 of 1: Safety/Obsolescence Upgrades (013-16)</i>														
A Kits														
Recurring														
1.1.1) AirStair - Organic	16 / 0.374	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	16 / 0.374		
<i>Subtotal: Recurring</i>	- / 0.374	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 0.374		
Non-Recurring														
1.2.1) A Kit Non-Recurring - Organic - Organic	3 / 0.900	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3 / 0.900		
1.2.2) C-12 M3AR Non-Recurring - Organic	- / -	- / 0.158	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.158		
1.2.3) Archive - Organic	- / 8.209	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 8.209		
<i>Subtotal: Non-Recurring</i>	- / 9.109	- / 0.158	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 9.267		
B Kits														
Recurring														
2.1.1) C-12 HF Radio - Organic	- / -	2 / 0.793	- / -	1 / 0.215	- / -	1 / 0.215	1 / 0.212	1 / 0.200	- / -	- / -	10 / 3.965	15 / 5.385		
2.1.2) UC-12W DUAL STRAKE - Organic ⁽⁶⁾	- / -	- / -	- / -	9 / 1.490	- / -	9 / 1.490	- / -	- / -	- / -	- / -	- / -	9 / 1.490		
2.1.3) B Kit Non-Recurring - Organic	- / 0.400	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.400		
<i>Subtotal: Recurring</i>	- / 0.400	- / 0.793	- / -	- / 1.705	- / -	- / 1.705	- / 0.212	- / 0.200	- / -	- / -	- / 3.965	- / 7.275		
<i>Subtotal: Safety/Obsolescence Upgrades (013-16)</i>	19 / 9.883	2 / 0.951	- / -	10 / 1.705	- / -	10 / 1.705	1 / 0.212	1 / 0.200	- / -	- / -	10 / 3.965	43 / 16.916		
<i>Subtotal: Procurement, All Modification Items</i>	- / 9.883	- / 0.951	- / -	- / 1.705	- / -	- / 1.705	- / 0.212	- / 0.200	- / -	- / -	- / 3.965	- / 16.916		
Support (All Modification Items)														
3.6) Other Support	- / 0.211	- / 1.264	- / 0.025	- / 0.020	- / -	- / 0.020	- / 0.025	- / 0.025	- / -	- / -	- / 0.125	- / 1.695		
<i>Subtotal: Support</i>	- / 0.211	- / 1.264	- / 0.025	- / 0.020	- / -	- / 0.020	- / 0.025	- / 0.025	- / -	- / -	- / 0.125	- / 1.695		
Installation														
<i>Subtotal: Installation</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -		
Total														
Total Cost (Procurement + Support + Installation)	10.094	2.215	0.025	1.725	0.000	1.725	0.237	0.225	0.000	0.000	4.090	18.611		

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0562 / Cargo/Transport Acft Series	Modification Number / Title: 3 / Safety/Obsolescence Upgrades (013-16)
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:
Modification Item 1 of 1: Safety/Obsolescence Upgrades (013-16)		

Footnotes:

⁽⁶⁾ 2.1.2: FY24 increase for UC-12W dual strakes due to USMC funding increase. This modification allows the aircraft to safely take off at max gross weight and meet operational and readiness requirements.

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Exhibit P-3a, Individual Modification: PB 2024 Navy	Date: March 2023
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Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0562 / Cargo/Transport Acft Series	Modification Number / Title: 4 / RESERVE FORCES Inactive OSIPs
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ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	75.818	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	75.818
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) <i>(\$ in Millions)</i>	75.818	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	75.818
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	75.818	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	75.818

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Dollars)</i>	-	-	-	-	-	-	-	-	-	-	-	-

Description:
Inactive OSIPs prior year totals.

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Exhibit P-3a, Individual Modification: PB 2024 Navy										Date: March 2023			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0562 / Cargo/Transport Acft Series						Modification Number / Title: 4 / RESERVE FORCES Inactive OSIPs			
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: [No Model Specified]				Modification Type: TBD				Related RDT&E PEs:					
Financial Plan <small>(*) Indicates the modification is being installed organically and no installation funds are required.</small>	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total	
	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	
Procurement													
1.1.1) Inactive OSIPs - Organic ^(*)	- / 75.818	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 75.818	
<i>Subtotal: Procurement</i>	- / 75.818	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 75.818	
Installation													
<i>Subtotal: Installation</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
Total													
Total Cost (Procurement + Support + Installation)	75.818	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	75.818	

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Exhibit P-40, Budget Line Item Justification: PB 2024 Navy **Date:** March 2023

Appropriation / Budget Activity / Budget Sub Activity: 1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft	P-1 Line Item Number / Title: 0564 / E-6 Series
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: 0101402N
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	2,174.083	113.247	129.049	164.571	0.000	164.571	143.124	133.862	136.454	139.675	105.954	3,240.019
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	2,174.083	113.247	129.049	164.571	0.000	164.571	143.124	133.862	136.454	139.675	105.954	3,240.019
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	2,174.083	113.247	129.049	164.571	0.000	164.571	143.124	133.862	136.454	139.675	105.954	3,240.019

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

This line item funds modifications to the E-6 Mercury aircraft to improve mission capability and readiness. All sixteen (16) aircraft, unless otherwise noted, in the E-6 fleet will receive each modification. The E-6 is a manned airborne communications platform designed to provide a survivable, enduring, and reliable airborne Command and Control Communications capability in support of the President, Secretary of Defense, and United States strategic and non-strategic forces.

- Safety Deficiencies (OSIP 008-02) corrects high risk aircraft safety hazards to protect personnel and equipment enabling mission readiness.
- Tech Insertion (OSIP 003-04) corrects aircraft obsolescence, supportability, weight management and interoperability deficiencies through new technology insertion enabling mission readiness and mandate compliance.
- Service Life Extension Program (OSIP 003-07) extends the service life of the aircraft to 2038+ through airframe strengthening and structural data recording and analysis.
- Communications Upgrade (OSIP 012-07) installs expanded aircraft digital communication paths and processing to improve airborne command post operations and modernizes direct over-the-horizon communications links to deployed strategic forces.
- Multi-Role Tactical Common Data Link (OSIP 013-10) installs expanded aircraft communication bandwidth capability required to interoperate with United States Strategic Command's National Command and Control Architecture.
- Auxiliary Power Unit (APU) (OSIP 002-12) corrects airborne command post operational test deficiencies by installing an improved APU to meet increased aircraft power requirements.
- Family of Advanced Beyond-Line-of-Sight Terminals/Presidential and National Voice Conferencing (FAB-T/PNVC) (OSIP 014-14) replaces obsolete Military Strategic Tactical Relay terminals with improved FAB-T and replaces Secure Emergency Conferencing Network with PNVC.
- Mission Systems (OSIP 014-21) addresses obsolescence and supportability upgrades through technology insertion of commercial and government off the shelf (COTs/GOTs) systems.

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Exhibit P-40, Budget Line Item Justification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft		P-1 Line Item Number / Title: 0564 / E-6 Series
ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: 0101402N
Line Item MDAP/MAIS Code: N/A		
-In Flight Trainer (OSIP 002-22) is to modify a UK E-3D aircraft to E-6B domestic airworthiness standards to produce an E-6B In Flight Trainer that will be dedicated to required pilot training on the E-6B aircraft.		

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Exhibit P-40, Budget Line Item Justification: PB 2024 Navy	Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft	P-1 Line Item Number / Title: 0564 / E-6 Series

ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: 0101402N
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Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	1 / Safety Deficiencies (OSIP 008-02) (Safety/Reliability/Improvements)				- / 120.687	- / 11.126	- / 9.171	- / 17.986	- / 0.000	- / 17.986
P-3a	2 / Tech Insertion (OSIP 003-04) (Capability and Reliability Improvements)				- / 159.093	- / 17.078	- / 29.743	- / 41.253	- / 0.000	- / 41.253
P-3a	3 / Service Life Extension Program (SLEP) (OSIP 003-07) (Life Extension)				- / 154.828	- / 6.293	- / 6.446	- / 5.332	- / 0.000	- / 5.332
P-3a	4 / Communications Upgrade (OSIP 012-07) (Capability Improvements)				- / 412.840	- / 18.672	- / 14.328	- / 45.804	- / 0.000	- / 45.804
P-3a	5 / Multi-Role Tactical Common Data Link (MR-TCDL) (OSIP 013-10) (Capability Improvements)				- / 352.680	- / 12.019	- / 14.875	- / 13.033	- / 0.000	- / 13.033
P-3a	6 / Auxiliary Power Unit (APU) (OSIP 002-12) (Capability Improvements)				- / 91.884	- / 2.736	- / 7.351	- / 8.498	- / 0.000	- / 8.498
P-3a	7 / Family of Adv Beyond-LI-of-Sight Term/Pres&Nat'l Voice Conf (FAB-T/PNVC)(OSIP 014-14) (Capability and Reliability Improvements)				- / 260.813	- / 25.334	- / 18.561	- / 15.758	- / 0.000	- / 15.758
P-3a	8 / Mission Systems (OSIP 014-21) (Capability Improvements)				- / 18.505	- / 14.998	- / 23.373	- / 15.415	- / 0.000	- / 15.415
P-3a	9 / In Flight Trainer (002-22) (TBD)				- / 0.000	- / 4.991	- / 5.201	- / 1.492	- / 0.000	- / 1.492
P-3a	10 / Inactive OSIPS (Inactive)				- / 602.753	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000
P-40	Total Gross/Weapon System Cost				- / 2,174.083	- / 113.247	- / 129.049	- / 164.571	- / 0.000	- / 164.571

Exhibits Schedule					FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	1 / Safety Deficiencies (OSIP 008-02) (Safety/Reliability/Improvements)				- / 22.968	- / 21.851	- / 23.779	- / 51.315	- / 34.873	- / 313.756
P-3a	2 / Tech Insertion (OSIP 003-04) (Capability and Reliability Improvements)				- / 38.405	- / 45.662	- / 49.611	- / 25.828	- / 24.360	- / 431.033
P-3a	3 / Service Life Extension Program (SLEP) (OSIP 003-07) (Life Extension)				- / 5.441	- / 5.547	- / 1.567	- / 0.000	- / 0.000	- / 185.454
P-3a	4 / Communications Upgrade (OSIP 012-07) (Capability Improvements)				- / 44.337	- / 44.326	- / 42.766	- / 29.932	- / 45.023	- / 698.028
P-3a	5 / Multi-Role Tactical Common Data Link (MR-TCDL) (OSIP 013-10) (Capability Improvements)				- / 11.285	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 403.892
P-3a	6 / Auxiliary Power Unit (APU) (OSIP 002-12) (Capability Improvements)				- / 8.861	- / 2.782	- / 2.352	- / 1.994	- / 1.698	- / 128.156
P-3a	7 / Family of Adv Beyond-LI-of-Sight Term/Pres&Nat'l Voice Conf (FAB-T/PNVC)(OSIP 014-14) (Capability and Reliability Improvements)				- / 4.444	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 324.910
P-3a	8 / Mission Systems (OSIP 014-21) (Capability Improvements)				- / 7.383	- / 13.694	- / 16.379	- / 30.606	- / 0.000	- / 140.353

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Exhibit P-40, Budget Line Item Justification: PB 2024 Navy **Date:** March 2023

Appropriation / Budget Activity / Budget Sub Activity: 1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft	P-1 Line Item Number / Title: 0564 / E-6 Series
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: 0101402N
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Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	9 / In Flight Trainer (002-22) (TBD)				- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 11.684
P-3a	10 / Inactive OSIPS (Inactive)				- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 602.753
P-40	Total Gross/Weapon System Cost				- / 143.124	- / 133.862	- / 136.454	- / 139.675	- / 105.954	- / 3,240.019

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

Justification:
 The FY 2024 funding request is for critical safety, readiness, obsolescence, avionics, and mission system modifications for the E-6B aircraft.

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0564 / E-6 Series	Modification Number / Title: 1 / Safety Deficiencies (OSIP 008-02)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	120.687	11.126	9.171	17.986	0.000	17.986	22.968	21.851	23.779	51.315	34.873	313.756
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	120.687	11.126	9.171	17.986	0.000	17.986	22.968	21.851	23.779	51.315	34.873	313.756
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	120.687	11.126	9.171	17.986	0.000	17.986	22.968	21.851	23.779	51.315	34.873	313.756

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

DESCRIPTION/JUSTIFICATION: The Operational Safety Improvement Program corrects safety hazards to protect personnel and equipment enabling mission readiness. The OSIP also addresses Federal agency directives, aging aircraft material condition, and emergent safety hazards generated by the operational environment. Modifications include, but not limited to: Fuel Quantity Indicator System (FQIS) modification; Kapton wiring replacement; Enhanced Ground Proximity Warning System (EGPWS); Auxiliary Power Unit (APU) Exhaust Box; Flight Deck Seats Replacement; and other safety deficiencies that require correction.

Safety OSIP increase from FY23 to FY24 due to additional NRE for Flight Deck Seat Replacement, Kapton Abatement (includes Wings, Forward Lower Lobe, Cockpit, Flight Engineer Station, and Forward Fuselage), and Auxiliary Power Unit (APU) Exhaust Box efforts.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: Aircraft Kapton NRE PY to beyond FYDP, buys kits and installs in PY to beyond FYDP. Kapton Abatement, Kapton Lower Lobe, Kapton Lower Lobe 1B, Engine Struts, and Tail are included in Kapton replacement efforts. A System Safety Risk Assessment (SSRA) performed in 2023 upgrade the risk associated with the Kapton replacement efforts to a serious risk.

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Exhibit P-3a, Individual Modification: PB 2024 Navy										Date: March 2023		
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0564 / E-6 Series						Modification Number / Title: 1 / Safety Deficiencies (OSIP 008-02)		
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:					
Models of Systems Affected: E-6 Series				Modification Type: Safety/Reliability/Improvements				Related RDT&E PEs:				
Financial Plan <small>(*) Indicates the modification is being installed organically and no installation funds are required.</small>	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>
Procurement												
1.1.1) Kapton Wings A Kits - NonOrganic ⁽¹⁾ <i>Installation 1 of 10</i>	12 / 1.922	2 / 0.311	2 / 0.318	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	16 / 2.551
1.1.2) Kapton Engine Struts A Kits - NonOrganic <i>Installation 2 of 10</i>	10 / 3.265	4 / 1.330	2 / 0.680	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	16 / 5.275
1.1.3) Kapton Lower Lobe A Kits - NonOrganic <i>Installation 3 of 10</i>	10 / 5.009	3 / 1.142	- / -	3 / 1.220	- / -	3 / 1.220	- / -	- / -	- / -	- / -	- / -	16 / 7.371
1.1.4) Kapton Tail A Kits - NonOrganic <i>Installation 4 of 10</i>	2 / 0.651	2 / 0.663	2 / 0.675	2 / 0.444	- / -	2 / 0.444	2 / 0.457	2 / 0.471	2 / 0.485	2 / 0.500	- / -	16 / 4.346
1.1.5) FQIS A Kits - NonOrganic <i>Installation 5 of 10</i>	16 / 0.736	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	16 / 0.736
1.1.6) EGPWS A Kit - NonOrganic <i>Installation 6 of 10</i>	- / -	- / -	- / -	3 / 0.135	- / -	3 / 0.135	6 / 0.275	5 / 0.234	2 / 0.095	- / -	- / -	16 / 0.739
1.1.7) Flight Deck Seats A Kits - NonOrganic <i>Installation 7 of 10</i>	- / -	- / -	- / -	- / -	- / -	- / -	4 / 0.402	4 / 0.412	4 / 0.424	4 / 0.436	- / -	16 / 1.674
1.1.8) Kapton Forward Lobe 1B A Kits - NonOrganic <i>Installation 8 of 10</i>	- / -	- / -	- / -	2 / 0.825	- / -	2 / 0.825	4 / 1.683	4 / 1.717	4 / 1.751	2 / 0.893	- / -	16 / 6.869
1.1.9) Kapton Abatement A Kits - NonOrganic <i>Installation 9 of 10</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 1.100	2 / 1.200	2 / 1.300	8 / 2.000	14 / 5.600
1.1.10) Archived ECPs - Organic ^(*)	112 / 17.803	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	112 / 17.803
1.2.1) Kapton Abatement NRE - Organic ^(*)	- / -	- / -	- / -	- / 1.220	- / -	- / 1.220	- / 2.340	- / -	- / -	- / -	- / -	- / 3.560
1.2.2) Installation Kits N/R - Organic ^{(*) (2)}	- / 29.689	- / 1.237	- / 1.912	- / 2.348	- / -	- / 2.348	- / 1.884	- / 1.822	- / 3.657	- / 4.856	- / 3.270	- / 50.675
1.2.3) Flight Deck Seats NRE - Organic ^(*)	- / -	- / -	- / -	- / 0.456	- / -	- / 0.456	- / 0.787	- / 0.375	- / -	- / -	- / -	- / 1.618
1.2.4) Kapton Wiring NRE - Organic ^(*)	- / -	- / -	- / -	- / 0.640	- / -	- / 0.640	- / 0.122	- / -	- / -	- / -	- / -	- / 0.762
1.2.5) Kapton Cockpit NRE - Organic ^(*)	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 8.244	- / 6.115	- / 14.359
1.2.6) Kapton Center Fuselage NRE - Organic ^(*)	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 6.142	- / 3.057	- / 9.199
1.2.7) Kapton Aft Lower Lobe NRE - Organic ^(*)	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 5.226	- / 3.332	- / 8.558
2.1.1) FQIS B Kits - Organic ^(*)	16 / 0.172	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	16 / 0.172
2.1.2) EGPWS B Kit - Organic ^(*)	- / -	- / -	- / -	3 / 0.450	- / -	3 / 0.450	6 / 0.918	5 / 0.780	2 / 0.318	- / -	- / -	16 / 2.466
2.1.3) Flight Deck Seat B-Kits - Organic ^(*)	- / -	- / -	- / -	- / -	- / -	- / -	4 / 1.640	4 / 1.671	4 / 1.701	4 / 1.732	- / -	16 / 6.744
2.1.4) APU Exhaust Box B Kits - NonOrganic <i>Installation 10 of 10</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4 / 0.530	4 / 0.530	4 / 0.530	4 / 0.530	16 / 2.120
2.1.5) Archived ECPs - Organic ^(*)	188 / 6.271	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	188 / 6.271
2.2.1) Installation Equipment N/R - NonOrganic ^(*)	- / 3.122	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 3.122

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy											Date: March 2023			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0564 / E-6 Series							Modification Number / Title: 1 / Safety Deficiencies (OSIP 008-02)			
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:							
Models of Systems Affected: E-6 Series				Modification Type: Safety/Reliability/Improvements				Related RDT&E PEs:						
Financial Plan <small>(*) Indicates the modification is being installed organically and no installation funds are required.</small>	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total		
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)		
2.2.2) APU Exhaust Box NRE - Organic ^(*)	- / -	- / -	- / -	- / 15.617	- / -	- / 15.617	- / 2.865	- / 2.392	- / -	- / -	- / -	- / 10.874		
Subtotal: Procurement	- / 68.640	- / 4.683	- / 3.585	- / 13.355	- / -	- / 13.355	- / 13.373	- / 11.504	- / 10.161	- / 29.859	- / 18.304	- / 173.464		
Support														
3.2) Data	- / 0.986	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.986		
3.3) Training	- / 5.833	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 5.833		
3.4) Support Equipment	- / 0.045	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.045		
3.5) ILS	- / 0.824	- / 0.191	- / 0.239	- / 0.244	- / -	- / 0.244	- / 0.250	- / 0.261	- / 0.266	- / 0.271	- / -	- / 2.546		
3.6) Engineering	- / 0.681	- / 0.402	- / 0.414	- / 0.422	- / -	- / 0.422	- / 0.430	- / 0.439	- / 0.448	- / 0.457	- / -	- / 3.693		
3.7) Other Support ⁽³⁾	- / 31.170	- / 0.748	- / 0.798	- / 0.838	- / -	- / 0.838	- / 0.855	- / 0.872	- / 0.889	- / 0.907	- / 0.925	- / 38.002		
Subtotal: Support	- / 39.539	- / 1.341	- / 1.451	- / 1.504	- / -	- / 1.504	- / 1.535	- / 1.572	- / 1.603	- / 1.635	- / 0.925	- / 51.105		
Installation														
Installation 1 of 10: Kapton Wings A Kits	- / 1.174	- / 0.265	- / 0.270	- / -	- / -	- / -	- / 0.088	- / -	- / -	- / -	- / 0.000	- / 1.797		
Installation 2 of 10: Kapton Engine Struts A Kits	- / 1.658	- / 0.144	- / 0.147	- / 0.193	- / 0.000	- / 0.193	- / 0.397	- / 0.409	- / 0.421	- / 0.217	- / 0.000	- / 3.586		
Installation 3 of 10: Kapton Lower Lobe A Kits	- / 7.271	- / 3.728	- / 2.852	- / 1.939	- / 0.000	- / 1.939	- / 3.956	- / 2.018	- / -	- / -	- / 0.000	- / 21.764		
Installation 4 of 10: Kapton Tail A Kits	- / -	- / 0.832	- / 0.866	- / 0.995	- / 0.000	- / 0.995	- / 1.025	- / 1.056	- / 1.090	- / 1.120	- / 1.153	- / 8.137		
Installation 5 of 10: FQIS A Kits	- / 2.405	- / 0.133	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 2.538		
Installation 6 of 10: EGPWS A Kit	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.300	- / 0.612	- / 0.520	- / 0.212	- / 0.000	- / 1.644		
Installation 7 of 10: Flight Deck Seats A Kits	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.120	- / 0.123	- / 0.248	- / 0.491		
Installation 8 of 10: Kapton Forward Lobe 1B A Kits	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.294	- / 4.680	- / 4.774	- / 4.869	- / 2.483	- / 19.100		
Installation 9 of 10: Kapton Abatement A Kits	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.200	- / 9.300	- / 3.000	- / 13.500		
Installation 10 of 10: APU Exhaust Box B Kits	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 3.890	- / 3.980	- / 8.760	- / 16.630		
Subtotal: Installation	- / 12.508	- / 5.102	- / 4.135	- / 3.127	- / -	- / 3.127	- / 8.060	- / 8.775	- / 12.015	- / 19.821	- / 15.644	- / 89.187		
Total														
Total Cost (Procurement + Support + Installation)	120.687	11.126	9.171	17.986	0.000	17.986	22.968	21.851	23.779	51.315	34.873	313.756		

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0564 / E-6 Series	Modification Number / Title: 1 / Safety Deficiencies (OSIP 008-02)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Installation 1 of 10: Kapton Wings A Kits

Manufacturer Information

Manufacturer Name: Kapton Wings/Grace Aerospace	Manufacturer Location: Long Island, NY
Administrative Leadtime (in Months): 3	Production Leadtime (in Months): 6

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates	Dec 2021	Dec 2022					
Delivery Dates	Jun 2022	Jun 2023					

Installation Information

Method of Implementation: Drive In:: Installation Name: Kapton Wings A Kits

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	11 / 1.174	1 / 0.133	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	12 / 1.307
FY 2022	- / -	1 / 0.132	1 / 0.135	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	2 / 0.267
FY 2023	- / -	- / -	1 / 0.135	- / -	- / -	- / -	1 / 0.088	- / -	- / -	- / -	0 / 0.000	2 / 0.223
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	11 / 1.174	2 / 0.265	2 / 0.270	- / -	- / -	- / -	1 / 0.088	- / -	- / -	- / -	0 / 0.000	16 / 1.797

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot		
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4				
In	11	2	-	-	-	1	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Out	11	-	-	1	1	-	-	1	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy **Date:** March 2023

Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0564 / E-6 Series	Modification Number / Title: 1 / Safety Deficiencies (OSIP 008-02)
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ID Code (A=Service Ready, B=Not Service Ready) : **MDAP/MAIS Code:**

Installation 2 of 10: Kapton Engine Struts A Kits

Manufacturer Information

Manufacturer Name: Kapton Struts/Grace Aerospace	Manufacturer Location: Long Island, NY
Administrative Leadtime (in Months): 3	Production Leadtime (in Months): 12

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates	Dec 2021	Dec 2022					
Delivery Dates	Dec 2022	Dec 2023					

Installation Information

Method of Implementation: Drive In:: Installation Name: Kapton Engine Struts A Kits

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	4 / 1.658	2 / 0.144	2 / 0.147	1 / 0.193	0 / 0.000	1 / 0.193	1 / 0.198	- / -	- / -	- / -	0 / 0.000	10 / 2.340
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.199	2 / 0.409	1 / 0.210	- / -	0 / 0.000	4 / 0.818
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.211	1 / 0.217	0 / 0.000	2 / 0.428
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	4 / 1.658	2 / 0.144	2 / 0.147	1 / 0.193	0 / 0.000	1 / 0.193	2 / 0.397	2 / 0.409	2 / 0.421	1 / 0.217	0 / 0.000	16 / 3.586

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	4	-	1	1	-	1	-	1	-	1	-	-	-	1	1	-	-	-	1	-	1	-	2	-	-	1	-	-	-	-	-
Out	4	-	1	1	-	-	1	1	-	-	-	1	-	-	-	1	1	-	-	-	1	-	1	-	2	-	-	1	-	-	-

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy **Date:** March 2023

Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0564 / E-6 Series	Modification Number / Title: 1 / Safety Deficiencies (OSIP 008-02)
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ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Installation 3 of 10: Kapton Lower Lobe A Kits

Manufacturer Information

Manufacturer Name: Various	Manufacturer Location: Various
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Administrative Leadtime (in Months): 10	Production Leadtime (in Months): 6
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Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates	Jul 2022		Jul 2024				
Delivery Dates	Jan 2023		Jan 2025				

Installation Information

Method of Implementation: [none specified]:: Installation Name: Kapton Lower Lobe A Kits

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	3 / 7.271	2 / 3.728	3 / 2.852	2 / 1.939	0 / 0.000	2 / 1.939	- / -	- / -	- / -	- / -	0 / 0.000	10 / 15.790
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	3 / 2.967	- / -	- / -	- / -	0 / 0.000	3 / 2.967
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.989	2 / 2.018	- / -	- / -	0 / 0.000	3 / 3.007
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	3 / 7.271	2 / 3.728	3 / 2.852	2 / 1.939	0 / 0.000	2 / 1.939	4 / 3.956	2 / 2.018	- / -	- / -	0 / 0.000	16 / 21.764

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	3	1	-	1	-	1	1	-	1	1	-	1	-	1	2	1	-	1	-	1	-	-	-	-	-	-	-	-	-	-	-
Out	3	-	1	-	1	-	1	1	1	-	1	-	1	-	1	1	2	-	1	-	1	-	-	-	-	-	-	-	-	-	-

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0564 / E-6 Series	Modification Number / Title: 1 / Safety Deficiencies (OSIP 008-02)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Installation 4 of 10: Kapton Tail A Kits

Manufacturer Information

Manufacturer Name: Wolf (Government)	Manufacturer Location: Webster Field
Administrative Leadtime (in Months): 6	Production Leadtime (in Months): 13

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates	Mar 2022	Mar 2023	Mar 2024	Mar 2025	Mar 2026	Mar 2027	Mar 2028
Delivery Dates	Apr 2023	Apr 2024	Apr 2025	Apr 2026	Apr 2027	Apr 2028	Apr 2029

Installation Information

Method of Implementation: Drive In:: Installation Name: Kapton Tail A Kits

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	2 / 0.832	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	2 / 0.832
FY 2022	- / -	- / -	2 / 0.866	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	2 / 0.866
FY 2023	- / -	- / -	- / -	2 / 0.995	0 / 0.000	2 / 0.995	- / -	- / -	- / -	- / -	0 / 0.000	2 / 0.995
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	2 / 1.025	- / -	- / -	- / -	0 / 0.000	2 / 1.025
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 1.056	- / -	- / -	0 / 0.000	2 / 1.056
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 1.090	- / -	0 / 0.000	2 / 1.090
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 1.120	0 / 0.000	2 / 1.120
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 1.153	2 / 1.153
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	2 / 0.832	2 / 0.866	2 / 0.995	0 / 0.000	2 / 0.995	2 / 1.025	2 / 1.056	2 / 1.090	2 / 1.120	2 / 1.153	16 / 8.137

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	1	1	-	-	1	1	-	-	1	1	-	-	1	1	-	-	1	1	-	-	1	1	1	-	1	-	2	16
Out	-	-	-	-	-	-	1	-	1	-	1	-	1	-	1	-	1	-	-	-	-	-	-	-	-	-	1	-	1	8	16

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0564 / E-6 Series	Modification Number / Title: 1 / Safety Deficiencies (OSIP 008-02)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Installation 5 of 10: FQIS A Kits

Manufacturer Information

Manufacturer Name: FQIS/EDN Aviation	Manufacturer Location: Van Nuys, CA
Administrative Leadtime (in Months): 2	Production Leadtime (in Months): 7

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates	Nov 2021						
Delivery Dates	Jun 2022						

Installation Information

Method of Implementation: Drive In:: Installation Name: FQIS A Kits

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	14 / 2.405	2 / 0.133	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	16 / 2.538
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	14 / 2.405	2 / 0.133	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	16 / 2.538

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot	
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4			
In	14	-	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	16
Out	13	-	1	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	16

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0564 / E-6 Series	Modification Number / Title: 1 / Safety Deficiencies (OSIP 008-02)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Installation 6 of 10: EGPWS A Kit

Manufacturer Information

Manufacturer Name: TBD	Manufacturer Location: TBD
Administrative Leadtime (in Months): 3	Production Leadtime (in Months): 12

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates			Dec 2023	Dec 2024	Dec 2025	Dec 2026	
Delivery Dates			Jan 2025	Jan 2026	Jan 2027	Jan 2028	

Installation Information

Method of Implementation: Drive in mod:: Installation Name: EGPWS A Kit

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	3 / 0.300	- / -	- / -	- / -	0 / 0.000	3 / 0.300
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	6 / 0.612	- / -	- / -	0 / 0.000	6 / 0.612
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	5 / 0.520	- / -	0 / 0.000	5 / 0.520
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.212	0 / 0.000	2 / 0.212
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	- / -	- / -	- / -	3 / 0.300	6 / 0.612	5 / 0.520	2 / 0.212	0 / 0.000	16 / 1.644

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	1	-	2	2	2	-	2	2	1	1	-	1	-	-	-
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	1	-	2	2	2	-	2	2	-	1	-	1	1	1

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy **Date:** March 2023

Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0564 / E-6 Series	Modification Number / Title: 1 / Safety Deficiencies (OSIP 008-02)
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ID Code (A=Service Ready, B=Not Service Ready) : **MDAP/MAIS Code:**

Installation 7 of 10: Flight Deck Seats A Kits

Manufacturer Information

Manufacturer Name: TBD Manufacturer Location: TBD

Administrative Leadtime (in Months): 6 Production Leadtime (in Months): 18

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates				Mar 2026	Mar 2027	Mar 2028	Mar 2029
Delivery Dates				Nov 2027	Nov 2028	Nov 2029	Nov 2030

Installation Information

Method of Implementation: [none specified]:: Installation Name: Flight Deck Seats A Kits

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4 / 0.120	- / -	0 / 0.000	4 / 0.120
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4 / 0.123	0 / 0.000	4 / 0.123
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4 / 0.124	4 / 0.124
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4 / 0.124	4 / 0.124
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4 / 0.120	4 / 0.123	8 / 0.248	16 / 0.491

Installation Schedule

PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	1	1	1	1	1	1	8	16
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	1	1	1	1	1	9	16

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy **Date:** March 2023

Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0564 / E-6 Series	Modification Number / Title: 1 / Safety Deficiencies (OSIP 008-02)
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ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Installation 8 of 10: Kapton Forward Lobe 1B A Kits

Manufacturer Information

Manufacturer Name: ALC	Manufacturer Location: Tinker
Administrative Leadtime (in Months): 3	Production Leadtime (in Months): 9

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates			Oct 2023	Oct 2024	Oct 2025	Oct 2026	Oct 2027
Delivery Dates			Oct 2024	Oct 2025	Oct 2026	Oct 2027	Oct 2028

Installation Information

Method of Implementation: [none specified]:: Installation Name: Kapton Forward Lobe 1B A Kits

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	2 / 2.294	- / -	- / -	- / -	0 / 0.000	2 / 2.294
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4 / 4.680	- / -	- / -	0 / 0.000	4 / 4.680
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4 / 4.774	- / -	0 / 0.000	4 / 4.774
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4 / 4.869	0 / 0.000	4 / 4.869
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 2.483	2 / 2.483
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	- / -	- / -	- / -	2 / 2.294	4 / 4.680	4 / 4.774	4 / 4.869	2 / 2.483	16 / 19.100

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	-	1	1	1	1	1	1	1	1	1	1	1	1	2	16
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	-	1	1	1	1	1	1	1	1	1	1	1	3	16

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy **Date:** March 2023

Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0564 / E-6 Series	Modification Number / Title: 1 / Safety Deficiencies (OSIP 008-02)
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ID Code (A=Service Ready, B=Not Service Ready) : **MDAP/MAIS Code:**

Installation 9 of 10: Kapton Abatement A Kits

Manufacturer Information

Manufacturer Name: ALC	Manufacturer Location: Tinker
Administrative Leadtime (in Months): 3	Production Leadtime (in Months): 9

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates					Oct 2025	Oct 2026	Oct 2027
Delivery Dates					Oct 2026	Oct 2027	Oct 2028

Installation Information

Method of Implementation: [none specified]:: Installation Name: Kapton Abatement A Kits

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 1.200	- / -	0 / 0.000	2 / 1.200
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 9.300	0 / 0.000	2 / 9.300
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 1.000	2 / 1.000
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	8 / 2.000	8 / 2.000
Total	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 1.200	2 / 9.300	10 / 3.000	14 / 13.500

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	-	1	-	1	-	10	14
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	-	1	-	1	10	14

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy **Date:** March 2023

Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0564 / E-6 Series	Modification Number / Title: 1 / Safety Deficiencies (OSIP 008-02)
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ID Code (A=Service Ready, B=Not Service Ready) : **MDAP/MAIS Code:**

Installation 10 of 10: APU Exhaust Box B Kits

Manufacturer Information

Manufacturer Name: TBD	Manufacturer Location: TBD
Administrative Leadtime (in Months): 3	Production Leadtime (in Months): 9

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates					Oct 2025	Oct 2026	Oct 2027
Delivery Dates					Oct 2026	Oct 2027	Oct 2028

Installation Information

Method of Implementation: [none specified]:: Installation Name: APU Exhaust Box B Kits

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4 / 3.890	- / -	0 / 0.000	4 / 3.890
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4 / 3.980	0 / 0.000	4 / 3.980
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4 / 4.380	4 / 4.380
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4 / 4.380	4 / 4.380
Total	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4 / 3.890	4 / 3.980	8 / 8.760	16 / 16.630

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	1	1	1	1	1	1	8	16
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	1	1	1	1	1	9	16

Footnotes:
 (1) Kapton Wings A Kit installation pauses in FY24 and resumes in FY25 due to current Heavy maintenance schedule.
 (2) Installation Kit NRE in PY-FY28 is for emergent safety modifications for an aging aircraft. Kapton Forward Lower Lobe 1B, Flight Deck Seat Replacement, Kapton Abatement, and Auxiliary Power Unit Exhaust Box NRE are broken out separately starting in FY24.
 (3) Other Support cost is for continued support of specifically identified safety efforts and for emergent aircraft safety hazards.

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0564 / E-6 Series	Modification Number / Title: 2 / Tech Insertion (OSIP 003-04)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	159.093	17.078	29.743	41.253	0.000	41.253	38.405	45.662	49.611	25.828	24.360	431.033
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	159.093	17.078	29.743	41.253	0.000	41.253	38.405	45.662	49.611	25.828	24.360	431.033
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	159.093	17.078	29.743	41.253	0.000	41.253	38.405	45.662	49.611	25.828	24.360	431.033

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

DESCRIPTION/JUSTIFICATION: Technology Insertion corrects aircraft systems obsolescence, supportability, interoperability deficiencies, and provides weight savings; all through technology insertion of commercial and government off the shelf (COTS/GOTs) system integration onto the E-6B. Integration of already qualified airborne systems will be primary solution sets, but if required, the ruggedization of the COTS/GOTs from land or water fielded systems may be pursued. Modifications include but are not limited to: Global Positioning System (GPS) M Code/Advanced Digital Antenna Production (ADAP) integrates production GOTs systems to correct aircraft GPS deficiencies and improve readiness; Fuel Tank Sealant Upgrade (FTSU) utilizes new commercially proven processes and materials to correct fuel system leaks caused by age and operational hours and reduce aircraft weight; AC Electrical Phase 1 will integrate production COTS/GOTs equipment to correct power generation deficiencies and increase readiness; Color Weather Radar; Cockpit upgrade includes cockpit displays, flight management and communications, Aircraft Data Loader (ADL) replacement, Portable Data Loader (PDL) replacement, Flight-deck Avionics, Navigation, and GPS Systems Upgrade (FANGS)and corrects known flight management avionics component obsolescence, ensures future airspace access and addresses vulnerabilities to the primary navigation GPS by integrating production COTS/GOTS equipment.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: FTSU A-kit buys and installs in PY-FY27. GPS ADAP A-kit and B-kit buys in FY20-FY24 with installs in FY21-FY25. Aircraft Electrical Phase 1 B-Kit buys in FY22-23, with organic installs; Cockpit Upgrade and Color Weather Radar NRE FY23-FY26.

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy										Date: March 2023			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0564 / E-6 Series						Modification Number / Title: 2 / Tech Insertion (OSIP 003-04)			
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: E-6 Series				Modification Type: Capability and Reliability Improvements				Related RDT&E PEs:					
Financial Plan <small>(*) Indicates the modification is being installed organically and no installation funds are required.</small>	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total	
	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	
Procurement													
1.1.1) ADL/PDL A-Kit - NonOrganic <i>Installation 1 of 5</i>	- / -	- / -	- / -	2 / 0.588	- / -	2 / 0.588	4 / 0.759	4 / 0.768	4 / 0.776	2 / 0.609	- / -	16 / 3.500	
1.1.2) Fuel Tank Sealant Upgrade A Kits - NonOrganic ⁽⁴⁾ <i>Installation 2 of 5</i>	9 / 1.743	1 / 0.150	2 / 0.300	2 / 0.360	- / -	2 / 0.360	2 / 0.380	- / -	- / -	- / -	- / -	16 / 2.933	
1.1.3) GPS ADAP A kit - NonOrganic <i>Installation 3 of 5</i>	6 / 0.304	4 / 0.208	4 / 0.212	2 / 0.108	- / -	2 / 0.108	- / -	- / -	- / -	- / -	- / -	16 / 0.832	
1.1.4) Cockpit Upgrade A kits - NonOrganic <i>Installation 4 of 5</i>	- / -	- / -	- / -	- / -	- / -	- / -	2 / 1.310	4 / 2.800	4 / 2.900	4 / 2.940	2 / 1.500	16 / 11.450	
1.1.5) Color Weather Radar A Kit - NonOrganic <i>Installation 5 of 5</i>	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.720	2 / 0.740	2 / 0.759	2 / 1.000	8 / 2.850	16 / 6.069	
1.1.6) Archived ECPs - Organic ^(*)	143 / 18.508	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	143 / 18.508	
1.1.7) PY Installs - Organic ^(*)	94 / 3.614	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	94 / 3.614	
1.2.2) Installation Kits N/R - Organic ^(*)	- / 34.036	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 3.434	- / 5.260	- / 3.540	- / 46.270	
1.2.3) Color Weather Radar NRE - Organic ^(*)	- / -	- / -	- / -	- / 4.110	- / -	- / 4.110	- / 7.990	- / 1.100	- / 1.300	- / -	- / -	- / 14.500	
1.2.4) Cockpit Upgrade NRE - Organic ^{(*) (5)}	- / -	- / -	- / 9.811	- / 19.904	- / -	- / 19.904	- / 9.709	- / 5.745	- / 4.670	- / 1.867	- / -	- / 51.706	
2.1.1) ADL/PDL B-Kit - Organic ^(*)	- / -	- / -	- / -	2 / 0.392	- / -	2 / 0.392	4 / 0.506	4 / 0.512	4 / 0.518	2 / 0.406	- / -	16 / 2.334	
2.1.2) GPS ADAP B Kit - Organic ^(*)	8 / 1.036	4 / 0.709	4 / 0.724	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	16 / 2.469	
2.1.3) Phase 1 AC Electrical B Kit - Organic ^(*)	- / -	3 / 0.900	13 / 4.150	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	16 / 5.050	
2.1.4) Cockpit Upgrade B Kit - Organic ^(*)	- / -	- / -	- / -	- / -	- / -	- / -	2 / 1.289	4 / 2.501	4 / 2.507	4 / 2.576	2 / 1.314	16 / 10.187	
2.1.5) Color Weather Radar B Kits - Organic ^(*)	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.332	2 / 0.340	2 / 0.343	2 / 0.720	8 / 1.000	16 / 2.735	
2.1.6) Archived ECPs - Organic ^(*)	208 / 15.241	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	208 / 15.241	
2.2.1) Installation Equipment N/R - Organic ^(*)	- / 3.468	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 3.468	
Subtotal: Procurement	- / 77.950	- / 1.967	- / 15.197	- / 25.462	- / -	- / 25.462	- / 22.995	- / 14.506	- / 17.207	- / 15.378	- / 10.204	- / 200.866	
Support													
3.1) Engineering Change Orders	- / 0.462	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.462	
3.2) Data	- / 1.423	- / 0.082	- / 0.083	- / 0.086	- / -	- / 0.086	- / 0.088	- / 13.000	- / 6.650	- / -	- / -	- / 21.412	
3.3) Training	- / 7.791	- / 1.112	- / 0.400	- / 1.080	- / -	- / 1.080	- / -	- / -	- / 5.373	- / -	- / -	- / 15.756	
3.4) Support Equipment	- / 1.367	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.367	
3.5) ILS	- / 3.038	- / 0.655	- / 0.658	- / 0.691	- / -	- / 0.691	- / 0.705	- / 0.719	- / 0.733	- / 0.748	- / 0.654	- / 8.601	
3.6) Engineering	- / 2.945	- / 0.984	- / 0.988	- / 1.037	- / -	- / 1.037	- / 1.058	- / 1.079	- / 1.101	- / 1.123	- / 0.666	- / 10.981	

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy **Date:** March 2023

Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1 **P-1 Line Item Number / Title:** 0564 / E-6 Series **Modification Number / Title:** 2 / Tech Insertion (OSIP 003-04)

ID Code (A=Service Ready, B=Not Service Ready) : **MDAP/MAIS Code:**

Models of Systems Affected: E-6 Series **Modification Type:** Capability and Reliability Improvements **Related RDT&E PEs:**

Financial Plan <small>(*) Indicates the modification is being installed organically and no installation funds are required.</small>	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>
3.7) Other Support	- 150.332	- 12.566	- 12.617	- 12.748	- / -	- 12.748	- 12.803	- 12.859	- 12.916	- 12.974	- 13.033	- 172.848
<i>Subtotal: Support</i>	- 167.358	- 15.399	- 14.746	- 15.642	- / -	- 15.642	- 14.654	- 17.657	- 16.773	- 14.845	- 14.353	- 131.427

Installation												
<i>Installation 1 of 5:</i> ADL/PDL A-Kit	- / -	- / -	- / -	- / -	- / -	- / -	- 10.540	- 10.758	- 10.766	- 10.775	- 10.559	- 13.398
<i>Installation 2 of 5:</i> Fuel Tank Sealant Upgrade A Kits	- 113.585	- 19.304	- 19.384	- 19.725	- 10.000	- 19.725	- 10.000	- 10.200	- 10.400	- / -	- 10.000	- 172.598
<i>Installation 3 of 5:</i> GPS ADAP A kit	- 10.200	- 10.408	- 10.416	- 10.424	- 10.000	- 10.424	- 10.216	- / -	- / -	- / -	- 10.000	- 11.664
<i>Installation 4 of 5:</i> Cockpit Upgrade A kits	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- 1.841	- 13.755	- 13.830	- 15.899	- 115.325
<i>Installation 5 of 5:</i> Color Weather Radar A Kit	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- 10.700	- 10.710	- 11.000	- 13.345	- 15.755
<i>Subtotal: Installation</i>	- 113.785	- 19.712	- 19.800	- 10.149	- / -	- 10.149	- 10.756	- 13.499	- 15.631	- 15.605	- 19.803	- 198.740

Total												
Total Cost (Procurement + Support + Installation)	159.093	17.078	29.743	41.253	0.000	41.253	38.405	45.662	49.611	25.828	24.360	431.033

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy **Date:** March 2023

Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0564 / E-6 Series	Modification Number / Title: 2 / Tech Insertion (OSIP 003-04)
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ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Installation 1 of 5: ADL/PDL A-Kit

Manufacturer Information

Manufacturer Name: TBD	Manufacturer Location: TBD
Administrative Leadtime (in Months): 3	Production Leadtime (in Months): 9

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates			Oct 2023	Oct 2024	Oct 2025	Oct 2026	Oct 2027
Delivery Dates			Oct 2024	Oct 2025	Oct 2026	Oct 2027	Oct 2028

Installation Information

Method of Implementation: [none specified]:: Installation Name: ADL/PDL A-Kit

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.540	- / -	- / -	- / -	0 / 0.000	2 / 0.540
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4 / 0.758	- / -	- / -	0 / 0.000	4 / 0.758
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4 / 0.766	- / -	0 / 0.000	4 / 0.766
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4 / 0.775	0 / 0.000	4 / 0.775
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.559	2 / 0.559
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.540	4 / 0.758	4 / 0.766	4 / 0.775	2 / 0.559	16 / 3.398

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	-	1	1	1	1	1	1	1	1	1	1	1	1	2	16
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	1	1	1	1	1	1	1	1	1	1	1	1	2	16

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy **Date:** March 2023

Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0564 / E-6 Series	Modification Number / Title: 2 / Tech Insertion (OSIP 003-04)
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ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Installation 2 of 5: Fuel Tank Sealant Upgrade A Kits

Manufacturer Information

Manufacturer Name: Fuel Tank Sealant Upgrade/PASI	Manufacturer Location: Dallas, TX
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Administrative Leadtime (in Months): 1	Production Leadtime (in Months): 24
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Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates	Oct 2021	Oct 2022	Oct 2023	Oct 2024			
Delivery Dates	Sep 2023	Sep 2024	Sep 2025	Sep 2026			

Installation Information

Method of Implementation: Drive In:: Installation Name: Fuel Tank Sealant Upgrade A Kits

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	4 / 13.585	2 / 9.304	2 / 9.384	1 / 4.862	0 / 0.000	1 / 4.862	- / -	- / -	- / -	- / -	0 / 0.000	9 / 37.135
FY 2022	- / -	- / -	- / -	1 / 4.863	0 / 0.000	1 / 4.863	- / -	- / -	- / -	- / -	0 / 0.000	1 / 4.863
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	2 / 10.000	- / -	- / -	- / -	0 / 0.000	2 / 10.000
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 10.200	- / -	- / -	0 / 0.000	2 / 10.200
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 10.400	- / -	0 / 0.000	2 / 10.400
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	4 / 13.585	2 / 9.304	2 / 9.384	2 / 9.725	0 / 0.000	2 / 9.725	2 / 10.000	2 / 10.200	2 / 10.400	- / -	0 / 0.000	16 / 72.598

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	4	1	-	1	-	1	-	1	-	1	-	1	-	1	-	1	-	1	-	1	-	1	-	1	-	1	-	1	-	-	16
Out	4	-	1	-	1	-	1	-	1	-	1	-	1	-	1	-	1	-	1	-	1	-	1	-	1	-	-	-	-	-	16

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy **Date:** March 2023

Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0564 / E-6 Series	Modification Number / Title: 2 / Tech Insertion (OSIP 003-04)
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ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Installation 3 of 5: GPS ADAP A kit

Manufacturer Information

Manufacturer Name: TBD	Manufacturer Location: TBD
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Administrative Leadtime (in Months): 3	Production Leadtime (in Months): 12
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Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates	Dec 2021	Dec 2022	Dec 2023				
Delivery Dates	Dec 2022	Dec 2023	Dec 2024				

Installation Information

Method of Implementation: [none specified]:: Installation Name: GPS ADAP A kit

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	2 / 0.200	4 / 0.408	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	6 / 0.608
FY 2022	- / -	- / -	4 / 0.416	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	4 / 0.416
FY 2023	- / -	- / -	- / -	4 / 0.424	0 / 0.000	4 / 0.424	- / -	- / -	- / -	- / -	0 / 0.000	4 / 0.424
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.216	- / -	- / -	- / -	0 / 0.000	2 / 0.216
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	2 / 0.200	4 / 0.408	4 / 0.416	4 / 0.424	0 / 0.000	4 / 0.424	2 / 0.216	- / -	- / -	- / -	0 / 0.000	16 / 1.664

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot		
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4				
In	2	1	1	2	-	1	1	2	-	1	1	2	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	16
Out	2	-	1	1	2	-	1	1	2	-	1	1	2	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	16

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy **Date:** March 2023

Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0564 / E-6 Series	Modification Number / Title: 2 / Tech Insertion (OSIP 003-04)
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ID Code (A=Service Ready, B=Not Service Ready) : **MDAP/MAIS Code:**

Installation 4 of 5: Cockpit Upgrade A kits

Manufacturer Information

Manufacturer Name: TBD Manufacturer Location: TBD

Administrative Leadtime (in Months): 3 Production Leadtime (in Months): 9

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates				Dec 2024	Dec 2025	Dec 2026	Dec 2028
Delivery Dates				Dec 2025	Dec 2026	Dec 2027	Dec 2029

Installation Information

Method of Implementation: [none specified]:: Installation Name: Cockpit Upgrade A kits

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 1.841	- / -	- / -	0 / 0.000	2 / 1.841
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4 / 3.755	- / -	0 / 0.000	4 / 3.755
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4 / 3.830	0 / 0.000	4 / 3.830
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4 / 3.933	4 / 3.933
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 1.966	2 / 1.966
Total	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 1.841	4 / 3.755	4 / 3.830	6 / 5.899	16 / 15.325

Installation Schedule

PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	-	1	1	1	1	1	1	1	1	6	16
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	-	1	1	1	1	1	1	1	7	16

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy **Date:** March 2023

Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0564 / E-6 Series	Modification Number / Title: 2 / Tech Insertion (OSIP 003-04)
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ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Installation 5 of 5: Color Weather Radar A Kit

Manufacturer Information

Manufacturer Name: TBD	Manufacturer Location: TBD
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Administrative Leadtime (in Months): 3	Production Leadtime (in Months): 9
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Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates				Oct 2024	Oct 2025	Oct 2026	Oct 2027
Delivery Dates				Oct 2025	Oct 2026	Oct 2027	Oct 2028

Installation Information

Method of Implementation: [none specified]:: Installation Name: Color Weather Radar A Kit

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.700	- / -	- / -	0 / 0.000	2 / 0.700
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.710	- / -	0 / 0.000	2 / 0.710
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 1.000	0 / 0.000	2 / 1.000
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.669	2 / 0.669
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	8 / 2.676	8 / 2.676
Total	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.700	2 / 0.710	2 / 1.000	10 / 3.345	16 / 5.755

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	-	1	-	1	-	1	-	1	-	10	16
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	-	1	-	1	-	1	-	1	10	16

Footnotes:
 (4) Budget reflects the decision to move FTSU from the Modification install line to the Heavy Depot line due to unanticipated maintenance issues. Budgeted amounts are based on actual costs incurred during first two installs on the Heavy Depot line.
 (5) FY23 NRE is funding the reconfiguration of the A kit. The increase in FY24 NRE funding will fund the build, install and initial flight test of the validation kit.

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0564 / E-6 Series	Modification Number / Title: 3 / Service Life Extension Program (SLEP) (OSIP 003-07)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	154.828	6.293	6.446	5.332	0.000	5.332	5.441	5.547	1.567	0.000	0.000	185.454
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	154.828	6.293	6.446	5.332	0.000	5.332	5.441	5.547	1.567	0.000	0.000	185.454
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	154.828	6.293	6.446	5.332	0.000	5.332	5.441	5.547	1.567	0.000	0.000	185.454

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

DESCRIPTION/JUSTIFICATION: Service Life Extension Program (SLEP) extends the service life of the aircraft to 2038+ through airframe strengthening, structural data recording and analysis, and just in time modifications to prevent aircraft grounding due to fatigue. Modifications include but are not limited to: SLEP Phase 1B implements additional structural strengthening for improved readiness and extended useful life; Individual Aircraft Tracking System (IATS) integrates the data collected from already installed Digital Flight Data Acquisition Unit (DFDAU) with data collected from a representative sample of E-6Bs (2 aircraft) during a limited period of time in support of the Aircraft Structural Integrity Program.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: PY-21 NRE is for SLEP Phase 1B. SLEP Phase 1B kit buys PY to FY26 and installs PY to beyond FYDP.

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Exhibit P-3a, Individual Modification: PB 2024 Navy										Date: March 2023			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0564 / E-6 Series					Modification Number / Title: 3 / Service Life Extension Program (SLEP) (OSIP 003-07)			
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: E-6 Series			Modification Type: Life Extension				Related RDT&E PEs:						
Financial Plan <small>(*) Indicates the modification is being installed organically and no installation funds are required.</small>	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total	
	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	
Procurement													
1.1.1) SLEP Phase 1B A Kits - NonOrganic <i>Installation 1 of 1</i>	6 / 1.101	2 / 0.169	2 / 0.172	2 / 0.176	- / -	2 / 0.176	2 / 0.179	2 / 0.183	- / -	- / -	- / -	16 / 1.980	
1.1.2) Archived ECPs - Organic ^(*)	18 / 89.839	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	18 / 89.839	
1.2.1) Installation Kits N/R - Organic ^(*)	- / 24.778	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 24.778	
Subtotal: Procurement	- / 115.718	- / 0.169	- / 0.172	- / 0.176	- / -	- / 0.176	- / 0.179	- / 0.183	- / -	- / -	- / 0.000	- / 116.597	
Support													
2.1) Data	- / 1.094	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.094	
2.2) Training	- / 2.317	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.317	
2.3) Support Equipment	- / 6.224	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 6.224	
2.4) ILS	- / 0.477	- / 0.217	- / 0.222	- / 0.226	- / -	- / 0.226	- / 0.230	- / 0.235	- / -	- / -	- / -	- / 1.607	
2.5) Engineering	- / 0.998	- / 0.297	- / 0.302	- / 0.241	- / -	- / 0.241	- / 0.250	- / 0.251	- / -	- / -	- / -	- / 2.339	
2.6) Other Support ⁽⁶⁾	- / 21.126	- / 2.772	- / 2.855	- / 1.736	- / -	- / 1.736	- / 1.770	- / 1.806	- / -	- / -	- / -	- / 32.065	
Subtotal: Support	- / 32.236	- / 3.286	- / 3.379	- / 2.203	- / -	- / 2.203	- / 2.250	- / 2.292	- / -	- / -	- / 0.000	- / 45.646	
Installation													
Installation 1 of 1: SLEP Phase 1B A Kits	- / 6.874	- / 2.838	- / 2.895	- / 2.953	- / 0.000	- / 2.953	- / 3.012	- / 3.072	- / 1.567	- / -	- / 0.000	- / 23.211	
Subtotal: Installation	- / 6.874	- / 2.838	- / 2.895	- / 2.953	- / -	- / 2.953	- / 3.012	- / 3.072	- / 1.567	- / -	- / 0.000	- / 23.211	
Total													
Total Cost (Procurement + Support + Installation)	154.828	6.293	6.446	5.332	0.000	5.332	5.441	5.547	1.567	0.000	0.000	185.454	

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0564 / E-6 Series	Modification Number / Title: 3 / Service Life Extension Program (SLEP) (OSIP 003-07)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Installation 1 of 1: SLEP Phase 1B A Kits

Manufacturer Information

Manufacturer Name: SLEP Phase 1B/ALC Tinker	Manufacturer Location: Tinker Air Force Base, OK
Administrative Leadtime (in Months): 5	Production Leadtime (in Months): 14

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates	Feb 2022	Feb 2023	Feb 2024	Feb 2025	Feb 2026		
Delivery Dates	Apr 2023	Apr 2024	Apr 2025	Apr 2026	Apr 2027		

Installation Information

Method of Implementation: Drive In:: Installation Name: SLEP Phase 1B A Kits

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	5 / 6.874	1 / 1.419	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	6 / 8.293
FY 2022	- / -	1 / 1.419	1 / 1.447	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	2 / 2.866
FY 2023	- / -	- / -	1 / 1.448	1 / 1.476	0 / 0.000	1 / 1.476	- / -	- / -	- / -	- / -	0 / 0.000	2 / 2.924
FY 2024	- / -	- / -	- / -	1 / 1.477	0 / 0.000	1 / 1.477	1 / 1.506	- / -	- / -	- / -	0 / 0.000	2 / 2.983
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	1 / 1.506	1 / 1.536	- / -	- / -	0 / 0.000	2 / 3.042
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 1.536	1 / 1.567	- / -	0 / 0.000	2 / 3.103
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	5 / 6.874	2 / 2.838	2 / 2.895	2 / 2.953	0 / 0.000	2 / 2.953	2 / 3.012	2 / 3.072	1 / 1.567	- / -	0 / 0.000	16 / 23.211

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	5	-	-	1	1	-	-	1	1	-	-	1	1	-	-	1	1	-	-	1	1	-	1	-	-	-	-	-	-	-	16
Out	4	1	-	-	1	1	-	-	1	1	-	-	1	1	-	-	1	1	-	-	1	1	-	1	-	-	-	-	-	-	16

Footnotes:
⁽⁶⁾ Other support includes project management and acquisition support for SLEP Phase 1B installs and IATS de-instrumentation FY22-FY26.

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0564 / E-6 Series	Modification Number / Title: 4 / Communications Upgrade (OSIP 012-07)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	412.840	18.672	14.328	45.804	0.000	45.804	44.337	44.326	42.766	29.932	45.023	698.028
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	412.840	18.672	14.328	45.804	0.000	45.804	44.337	44.326	42.766	29.932	45.023	698.028
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	412.840	18.672	14.328	45.804	0.000	45.804	44.337	44.326	42.766	29.932	45.023	698.028

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

DESCRIPTION/JUSTIFICATION: Install expanded aircraft digital communications paths and processing to improve airborne command post operations and modernize High Frequency (HF) Radio and Very Low Frequency (VLF) direct over-the-horizon links to deployed strategic forces. Internet Protocol (IP) connectivity and wideband communication capability to enable voice, video and data services, and replacement of obsolescent High Frequency (HF) radios are mission critical to command and control operations. Modifications include: Special Mode A (SMA) receive and transmit capability, and High Power Transmit Set (HPTS) Modernization Program.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: HPTS Modernization NRE in PY-FY22 with procurement of kits FY22-FY28 and production installs in FY23-FYDP. SMA NRE in FY24 with kit procurement and installations in FY25. HF NRE in FY24-25 with kit procurement and organic installs FY26-29.

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Exhibit P-3a, Individual Modification: PB 2024 Navy										Date: March 2023				
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0564 / E-6 Series					Modification Number / Title: 4 / Communications Upgrade (OSIP 012-07)				
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:							
Models of Systems Affected: E-6 Series				Modification Type: Capability Improvements				Related RDT&E PEs:						
Financial Plan <small>(*) Indicates the modification is being installed organically and no installation funds are required.</small>	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total		
	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>		
Procurement														
1.1.1) HPTS A Kit - NonOrganic ⁽⁷⁾ <i>Installation 1 of 1</i>	- / -	1 / 2.532	1 / 2.583	2 / 5.270	- / -	2 / 5.270	2 / 5.376	3 / 8.226	3 / 8.391	2 / 5.706	- / -	14 / 38.084		
1.1.2) HF Radio A Kits - Organic ⁽⁸⁾	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.207	4 / 0.423	4 / 0.432	4 / 0.440	14 / 1.502		
1.1.3) Archived ECPs - Organic ⁽⁹⁾	97 / 121.567	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	97 / 121.567		
1.2.1) Installation Kit N/R - Organic ⁽⁹⁾	- / 170.370	- / 3.512	- / 1.551	- / -	- / -	- / -	- / 3.331	- / -	- / -	- / -	- / 32.791	- / 211.555		
1.2.2) Installation Kit N/R SMA - Organic ⁽⁹⁾	- / -	- / -	- / -	- / 9.830	- / -	- / 9.830	- / -	- / -	- / -	- / -	- / -	- / 9.830		
1.2.3) Installation Kit N/R HF - Organic ⁽¹⁰⁾	- / -	- / -	- / -	- / 8.181	- / -	- / 8.181	- / 3.552	- / 4.512	- / -	- / -	- / -	- / 16.245		
2.1.1) HPTS B Kit - Organic ⁽⁹⁾	- / -	1 / 5.536	1 / 5.647	2 / 11.520	- / -	2 / 11.520	2 / 11.750	3 / 17.979	3 / 18.339	2 / 12.470	- / -	14 / 83.241		
2.1.2) HF Radio B Kits - Organic ⁽⁹⁾	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 1.744	4 / 3.558	4 / 3.629	4 / 3.702	14 / 12.633		
2.1.3) SMA B Kits - Organic ⁽¹¹⁾	- / -	- / -	- / -	- / -	- / -	- / -	16 / 6.400	- / -	- / -	- / -	- / -	16 / 6.400		
2.1.4) Archived ECPs - Organic ⁽⁹⁾	33 / 6.553	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	33 / 6.553		
Subtotal: Procurement	- / 298.490	- / 11.580	- / 9.781	- / 34.801	- / -	- / 34.801	- / 30.409	- / 32.668	- / 30.711	- / 22.237	- / 36.933	- / 507.610		
Support														
3.1) Data	- / 5.419	- / -	- / -	- / 0.889	- / -	- / 0.889	- / -	- / -	- / -	- / -	- / -	- / 6.308		
3.2) Training	- / 25.162	- / -	- / -	- / 4.935	- / -	- / 4.935	- / 6.548	- / 4.707	- / 4.846	- / -	- / -	- / 46.198		
3.3) Support Equipment	- / 0.025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.025		
3.4) ILS	- / 8.731	- / 0.312	- / 0.318	- / 0.324	- / -	- / 0.324	- / 0.330	- / 0.337	- / 0.344	- / 0.351	- / 0.358	- / 11.405		
3.5) Engineering	- / -	- / 2.596	- / 1.188	- / 1.200	- / -	- / 1.200	- / 1.200	- / 1.224	- / 1.248	- / 1.272	- / 1.298	- / 11.226		
3.6) Other Support ⁽¹²⁾	- / 75.013	- / 4.184	- / 3.041	- / 3.655	- / -	- / 3.655	- / 3.992	- / 3.496	- / 3.685	- / 3.116	- / 1.259	- / 101.441		
Subtotal: Support	- / 114.350	- / 7.092	- / 4.547	- / 11.003	- / -	- / 11.003	- / 12.070	- / 9.764	- / 10.123	- / 4.739	- / 2.915	- / 176.603		
Installation														
Installation 1 of 1: HPTS A Kit	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.858	- / 1.894	- / 1.932	- / 2.956	- / 5.175	- / 13.815		
Subtotal: Installation	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / 1.858	- / 1.894	- / 1.932	- / 2.956	- / 5.175	- / 13.815		
Total														
Total Cost (Procurement + Support + Installation)	412.840	18.672	14.328	45.804	0.000	45.804	44.337	44.326	42.766	29.932	45.023	698.028		

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0564 / E-6 Series	Modification Number / Title: 4 / Communications Upgrade (OSIP 012-07)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Installation 1 of 1: HPTS A Kit

Manufacturer Information

Manufacturer Name: HPTS / Collins Aerospace ⁽¹³⁾	Manufacturer Location: Cedar Rapids, IA
Administrative Leadtime (in Months): 2	Production Leadtime (in Months): 24

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates	Jun 2022	Jan 2023	Oct 2023	Oct 2024	Oct 2025	Oct 2026	Oct 2027
Delivery Dates	Aug 2024	Mar 2025	Dec 2026	Dec 2027	Dec 2027	Dec 2028	Dec 2029

Installation Information

Method of Implementation: [none specified]:: Installation Name: HPTS A Kit

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.929	- / -	- / -	- / -	0 / 0.000	1 / 0.929
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.929	- / -	- / -	- / -	0 / 0.000	1 / 0.929
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 1.894	- / -	- / -	0 / 0.000	2 / 1.894
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 1.932	- / -	0 / 0.000	2 / 1.932
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3 / 2.956	0 / 0.000	3 / 2.956
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3 / 2.070	3 / 2.070
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 3.105	2 / 3.105
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	- / -	- / -	- / -	2 / 1.858	2 / 1.894	2 / 1.932	3 / 2.956	5 / 5.175	14 / 13.815

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	-	1	-	1	-	1	-	1	1	1	-	5	14		
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	-	1	-	1	-	1	-	1	1	1	5	14		

Footnotes:
⁽⁷⁾ HPTS Kit procurement and installation delayed due to realignment of funding to high priority MCM modernization efforts.
⁽⁸⁾ The total quantity of HF Radio A and B kits consist of fourteen (14) and two (2) validation and verification kits procured under Non-Recurring Engineering (NRE) for a total quantity of 16.

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0564 / E-6 Series	Modification Number / Title: 4 / Communications Upgrade (OSIP 012-07)
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:

- (9) SMA NRE in FY24 with kit procurement and installations in FY25.
- (10) HF NRE in FY24-25 with kit procurement and organic installs FY26-29.
- (11) SMA B Kits to be installed in existing A kits
- (12) Other support costs includes project management and acquisition support to execute the contract for High Power Transmit Set (HPTS) program. Increase for FY24-25 to support Special Mode Alpha effort.
- (13) The total quantity of HPTS A and B kits consist of fourteen (14) HPTS and two (2) validation and verification kits procured under Non-Recurring Engineering (NRE) for a total quantity of 16.

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0564 / E-6 Series	Modification Number / Title: 5 / Multi-Role Tactical Common Data Link (MR-TCDL) (OSIP 013-10)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	352.680	12.019	14.875	13.033	0.000	13.033	11.285	0.000	0.000	0.000	0.000	403.892
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	352.680	12.019	14.875	13.033	0.000	13.033	11.285	0.000	0.000	0.000	0.000	403.892
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	352.680	12.019	14.875	13.033	0.000	13.033	11.285	0.000	0.000	0.000	0.000	403.892
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

DESCRIPTION/JUSTIFICATION: Multi-Role Tactical Common Data Link (MR-TCDL) is an Army program which developed production hardware that is being integrated into the E-6B aircraft. The E-6B MR-TCDL program supports expanded aircraft communication bandwidth capability required to interoperate with United States Strategic Command's National Command and Control Architecture.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: PY NRE includes one A & B kit and one install. MR-TCDL Production A kit buys in PY-FY22 and B Kit buys in PY, with installs PY-25.

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Exhibit P-3a, Individual Modification: PB 2024 Navy										Date: March 2023				
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0564 / E-6 Series					Modification Number / Title: 5 / Multi-Role Tactical Common Data Link (MR-TCDL) (OSIP 013-10)				
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:							
Models of Systems Affected: E-6 Series				Modification Type: Capability Improvements				Related RDT&E PEs:						
Financial Plan <small>(*) Indicates the modification is being installed organically and no installation funds are required.</small>	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total		
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)		
Procurement														
1.1.1) MR-TCDL A Kit - Organic ^(*)	12 / 25.428	3 / 7.594	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	15 / 33.022		
1.2.1) Installation Kit N/R - Organic ^(*)	- / 86.720	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 86.720		
2.1.1) MR-TCDL Equipment B Kits - NonOrganic <i>Installation 1 of 1</i>	15 / 69.523	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	15 / 69.523		
Subtotal: Procurement	- / 181.671	- / 7.594	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 189.265		
Support														
3.1) Engineering Change Orders	- / 8.668	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 8.668		
3.2) Data	- / 8.425	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 8.425		
3.3) Training	- / 20.241	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 20.241		
3.4) Support Equipment	- / 6.900	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 6.900		
3.5) ILS	- / 10.055	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 10.055		
3.6) Engineering	- / 4.770	- / 0.777	- / 1.451	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 6.998		
3.7) Other Support ⁽¹⁴⁾	- / 166.454	- / 3.648	- / 3.540	- / 10.360	- / -	- / 10.360	- / 10.454	- / -	- / -	- / -	- / -	- / 174.456		
Subtotal: Support	- / 115.513	- / 4.425	- / 4.991	- / 10.360	- / -	- / 10.360	- / 10.454	- / -	- / -	- / -	- / 0.000	- / 125.743		
Installation														
Installation 1 of 1: MR-TCDL Equipment B Kits	- / 55.496	- / -	- / 9.884	- / 12.673	- / 10.000	- / 12.673	- / 10.831	- / -	- / -	- / -	- / 0.000	- / 88.884		
Subtotal: Installation	- / 55.496	- / -	- / 9.884	- / 12.673	- / -	- / 12.673	- / 10.831	- / -	- / -	- / -	- / 0.000	- / 88.884		
Total														
Total Cost (Procurement + Support + Installation)	352.680	12.019	14.875	13.033	0.000	13.033	11.285	0.000	0.000	0.000	0.000	403.892		

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0564 / E-6 Series	Modification Number / Title: 5 / Multi-Role Tactical Common Data Link (MR-TCDL) (OSIP 013-10)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Installation 1 of 1: MR-TCDL Equipment B Kits

Manufacturer Information

Manufacturer Name: MR-TCDL B Kits Northrup Grumman Systems Corp	Manufacturer Location: San Diego, Ca
Administrative Leadtime (in Months): 2	Production Leadtime (in Months): 21

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates							
Delivery Dates							

Installation Information

Method of Implementation: [none specified]:: Installation Name: MR-TCDL Equipment B Kits

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	6 / 55.496	- / -	2 / 9.884	4 / 12.673	0 / 0.000	4 / 12.673	3 / 10.831	- / -	- / -	- / -	0 / 0.000	15 / 88.884
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	6 / 55.496	- / -	2 / 9.884	4 / 12.673	0 / 0.000	4 / 12.673	3 / 10.831	- / -	- / -	- / -	0 / 0.000	15 / 88.884

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot	
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4			
In	6	-	-	-	-	1	-	1	-	1	1	1	1	-	1	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15
Out	3	1	1	1	-	-	-	1	-	1	-	1	1	1	1	-	1	1	1	-	-	-	-	-	-	-	-	-	-	-	-	15

Footnotes:
⁽¹⁴⁾ FY22 - FY25 Other Support includes project management support and acquisition support integral to the execution of the MR-TCDL modifications.

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0564 / E-6 Series	Modification Number / Title: 6 / Auxiliary Power Unit (APU) (OSIP 002-12)

ID Code (A=Service Ready, B=Not Service Ready) : _____ **MDAP/MAIS Code:** _____

Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	91.884	2.736	7.351	8.498	0.000	8.498	8.861	2.782	2.352	1.994	1.698	128.156
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	91.884	2.736	7.351	8.498	0.000	8.498	8.861	2.782	2.352	1.994	1.698	128.156
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	91.884	2.736	7.351	8.498	0.000	8.498	8.861	2.782	2.352	1.994	1.698	128.156

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

DESCRIPTION/JUSTIFICATION: The Auxiliary Power Unit (APU) incorporates safety, capacity and life-limiting propulsion and power corrective actions to resolve safety and readiness concerns. Corrections to design deficiencies found during post production test and evaluation and discovered during fleet operations have resulted in safety and reliability degradations that must be corrected. The requirement to upgrade or modify the APU is critical in maintaining sustainable fleet reliability, safety, and performance and is necessary to meet established mission requirements.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: APU Kit buys PY; installations PY-FY25 based on fleet aircraft availability.

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Exhibit P-3a, Individual Modification: PB 2024 Navy										Date: March 2023			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0564 / E-6 Series					Modification Number / Title: 6 / Auxiliary Power Unit (APU) (OSIP 002-12)			
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: E-6 Series				Modification Type: Capability Improvements				Related RDT&E PEs:					
Financial Plan <small>(*) Indicates the modification is being installed organically and no installation funds are required.</small>	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total	
	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	
Procurement													
1.1.1) APU A Kit - NonOrganic <i>Installation 1 of 1</i>	15 / 23.754	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	15 / 23.754	
1.2.1) Installation Kits N/R - Organic ^{(*) (15)}	- / 6.589	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 6.589	
2.1.1) APU Equipment B Kit - Organic ^(*)	15 / 10.989	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	15 / 10.989	
2.1.2) APU Generator B kit - Organic ^(*)	15 / 0.860	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	15 / 0.860	
<i>Subtotal: Procurement</i>	- / 42.192	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 42.192	
Support													
3.1) Engineering Change Orders	- / 0.200	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.200	
3.2) Data	- / 2.841	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.841	
3.3) Training	- / 6.451	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 6.451	
3.4) Support Equipment	- / 4.291	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 4.291	
3.5) ILS	- / 2.641	- / -	- / -	- / 0.500	- / -	- / 0.500	- / 0.600	- / 0.720	- / 0.648	- / 0.583	- / 0.525	- / 6.217	
3.6) Engineering	- / 0.967	- / 0.138	- / -	- / 0.300	- / -	- / 0.300	- / 0.450	- / 0.540	- / 0.486	- / 0.437	- / 0.394	- / 3.712	
3.7) Other Support ⁽¹⁶⁾	- / 11.612	- / 2.598	- / 1.566	- / 1.560	- / -	- / 1.560	- / 1.551	- / 1.522	- / 1.218	- / 0.974	- / 0.779	- / 23.380	
<i>Subtotal: Support</i>	- / 29.003	- / 2.736	- / 1.566	- / 2.360	- / -	- / 2.360	- / 2.601	- / 2.782	- / 2.352	- / 1.994	- / 1.698	- / 47.092	
Installation													
<i>Installation 1 of 1: APU A Kit</i>	- / 20.689	- / -	- / 5.785	- / 6.138	- / 0.000	- / 6.138	- / 6.260	- / -	- / -	- / -	- / 0.000	- / 38.872	
<i>Subtotal: Installation</i>	- / 20.689	- / -	- / 5.785	- / 6.138	- / -	- / 6.138	- / 6.260	- / -	- / -	- / -	- / 0.000	- / 38.872	
Total													
Total Cost (Procurement + Support + Installation)	91.884	2.736	7.351	8.498	0.000	8.498	8.861	2.782	2.352	1.994	1.698	128.156	

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0564 / E-6 Series	Modification Number / Title: 6 / Auxiliary Power Unit (APU) (OSIP 002-12)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Installation 1 of 1: APU A Kit

Manufacturer Information

Manufacturer Name: APU A Kit/L-3	Manufacturer Location: Waco, TX
Administrative Leadtime (in Months): 9	Production Leadtime (in Months): 48

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates							
Delivery Dates							

Installation Information

Method of Implementation: Drive In:: Installation Name: APU A Kit

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	6 / 20.689	- / -	2 / 5.785	4 / 6.138	0 / 0.000	4 / 6.138	3 / 6.260	- / -	- / -	- / -	0 / 0.000	15 / 38.872
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	6 / 20.689	- / -	2 / 5.785	4 / 6.138	0 / 0.000	4 / 6.138	3 / 6.260	- / -	- / -	- / -	0 / 0.000	15 / 38.872

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot	
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4			
In	6	-	-	-	-	1	-	1	-	1	1	1	1	-	1	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15
Out	3	1	1	1	-	-	-	1	-	1	-	1	1	1	1	-	1	1	1	-	-	-	-	-	-	-	-	-	-	-	-	15

Footnotes:
 (15) PY NRE includes one A & B kit and one install.
 (16) Other Support is for contractor program management oversight of concurrent APU aircraft modification installation with MR-TCDL and FAB-T/PNVC/DRSS to minimize aircraft out of reporting time.

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0564 / E-6 Series	Modification Number / Title: 7 / Family of Adv Beyond-LI-of-Sight Term/Pres&Nat'l Voice Conf (FAB-T/PNVC)(OSIP 014-14)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	260.813	25.334	18.561	15.758	0.000	15.758	4.444	0.000	0.000	0.000	0.000	324.910
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	260.813	25.334	18.561	15.758	0.000	15.758	4.444	0.000	0.000	0.000	0.000	324.910
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	260.813	25.334	18.561	15.758	0.000	15.758	4.444	0.000	0.000	0.000	0.000	324.910

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

DESCRIPTION/JUSTIFICATION: Family of Advanced Beyond-Line-of-Sight Terminals (FAB-T) and Presidential and National Voice Conferencing (PNVC) are U.S. Air Force (USAF) programs of record. USAF will be providing production hardware to the E-6B for integration into the aircraft. These systems are an obsolescence replacement for the currently installed Military Strategic Tactical Relay terminals (MILSTAR) and Survivable Emergency Communication Network (SECN). E-6B integration NRE for FAB-T and PNVC includes Red Switch (RS) integration, which is required for PNVC capability.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: FAB-T/PNVC/RS NRE in PY and FY21- FY22. FAB-T A kit buys in PY and FY21-FY22 with installs in PY and FY21-FY24. FAB-T installs accelerated to complete in FY24 in support of NC3 operational requirements. PNVC A kit buys in PY and FY21-FY22; B kit buys in PY with installs in PY and FY21-FY25. RS A kit buys in PY-FY22; B kit buys in PY-FY22 with installs in PY and FY21-FY25.

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy											Date: March 2023		
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0564 / E-6 Series				Modification Number / Title: 7 / Family of Adv Beyond-LI-of-Sight Term/Pres&Nat'l Voice Conf (FAB-T/PNVC)(OSIP 014-14)					
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: E-6 Series				Modification Type: Capability and Reliability Improvements				Related RDT&E PEs:					
Financial Plan <small>(*) Indicates the modification is being installed organically and no installation funds are required.</small>	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total	
	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	
Procurement													
1.1.1) FAB-T A Kit - NonOrganic <i>Installation 1 of 3</i>	13 / 5.662	3 / 1.353	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	16 / 7.015	
1.1.2) PNVC A Kit - Organic ^(*)	13 / 1.048	3 / 0.216	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	16 / 1.264	
1.1.3) RS A KIT - Organic ^(*)	14 / 43.632	2 / 6.240	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	16 / 49.872	
1.2.1) Install Kits N/R - Organic ^(*)	- / 140.006	- / 3.756	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 143.762	
2.1.1) PNVC B Kit - NonOrganic <i>Installation 2 of 3</i>	16 / 3.417	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	16 / 3.417	
2.1.2) RS B KIT - NonOrganic <i>Installation 3 of 3</i>	14 / 13.958	2 / 2.795	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	16 / 16.753	
Subtotal: Procurement	- / 107.723	- / 14.360	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 122.083	
Support													
3.1) Engineering Change Order	- / 0.500	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.500	
3.2) Data	- / 5.088	- / 0.886	- / 0.926	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 6.900	
3.3) Training	- / 32.361	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 32.361	
3.4) Support Equipment	- / 17.974	- / 0.270	- / 0.135	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 18.379	
3.5) ILS	- / 1.169	- / 0.174	- / 0.200	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.543	
3.6) Engineering	- / 17.091	- / 4.411	- / 3.997	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 25.499	
3.7) Other Support	- / 56.663	- / 5.233	- / 5.136	- / 1.338	- / -	- / 1.338	- / 1.105	- / -	- / -	- / -	- / -	- / 69.475	
Subtotal: Support	- / 130.846	- / 10.974	- / 10.394	- / 1.338	- / -	- / 1.338	- / 1.105	- / -	- / -	- / -	- / 0.000	- / 154.657	
Installation													
Installation 1 of 3: FAB-T A Kit	- / 12.038	- / -	- / 5.229	- / 6.669	- / 0.000	- / 6.669	- / -	- / -	- / -	- / -	- / 0.000	- / 23.936	
Installation 2 of 3: PNVC B Kit	- / 3.301	- / -	- / 1.650	- / 1.110	- / 0.000	- / 1.110	- / 1.115	- / -	- / -	- / -	- / 0.000	- / 17.176	
Installation 3 of 3: RS B KIT	- / 6.905	- / -	- / 1.288	- / 6.641	- / 0.000	- / 6.641	- / 2.224	- / -	- / -	- / -	- / 0.000	- / 17.058	
Subtotal: Installation	- / 22.244	- / -	- / 8.167	- / 14.420	- / -	- / 14.420	- / 3.339	- / -	- / -	- / -	- / 0.000	- / 48.170	
Total													
Total Cost (Procurement + Support + Installation)	260.813	25.334	18.561	15.758	0.000	15.758	4.444	0.000	0.000	0.000	0.000	324.910	

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0564 / E-6 Series	Modification Number / Title: 7 / Family of Adv Beyond-LI-of-Sight Term/Pres&Nat'l Voice Conf (FAB-T/PNVC)(OSIP 014-14)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Installation 1 of 3: FAB-T A Kit

Manufacturer Information

Manufacturer Name: Various	Manufacturer Location: Various
Administrative Leadtime (in Months): 2	Production Leadtime (in Months): 14

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates	Nov 2021						
Delivery Dates	Jan 2023						

Installation Information

Method of Implementation: [none specified]:: Installation Name: FAB-T A Kit

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	7 / 12.038	- / -	2 / 5.229	4 / 3.811	0 / 0.000	4 / 3.811	- / -	- / -	- / -	- / -	0 / 0.000	13 / 21.078
FY 2022	- / -	- / -	- / -	3 / 2.858	0 / 0.000	3 / 2.858	- / -	- / -	- / -	- / -	0 / 0.000	3 / 2.858
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	7 / 12.038	- / -	2 / 5.229	7 / 6.669	0 / 0.000	7 / 6.669	- / -	- / -	- / -	- / -	0 / 0.000	16 / 23.936

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot	
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4			
In	7	-	-	-	-	1	-	1	-	2	3	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	16
Out	4	1	1	1	-	-	-	1	-	1	2	3	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	16

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0564 / E-6 Series	Modification Number / Title: 7 / Family of Adv Beyond-LI-of-Sight Term/Pres&Nat'l Voice Conf (FAB-T/ PNVC)(OSIP 014-14)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Installation 2 of 3: PNVC B Kit

Manufacturer Information

Manufacturer Name: Various	Manufacturer Location: Various
Administrative Leadtime (in Months): 2	Production Leadtime (in Months): 10

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates							
Delivery Dates							

Installation Information

Method of Implementation: Drive-In Modification:: Installation Name: PNVC B Kit

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	7 / 3.301	- / -	2 / 1.650	4 / 1.110	0 / 0.000	4 / 1.110	3 / 1.115	- / -	- / -	- / -	0 / 0.000	16 / 7.176
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	7 / 3.301	- / -	2 / 1.650	4 / 1.110	0 / 0.000	4 / 1.110	3 / 1.115	- / -	- / -	- / -	0 / 0.000	16 / 7.176

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot	
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4			
In	7	-	-	-	-	1	-	1	-	1	1	1	1	-	1	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	16
Out	4	1	1	1	-	-	-	1	-	1	-	1	1	1	1	-	1	1	1	-	-	-	-	-	-	-	-	-	-	-	-	16

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0564 / E-6 Series	Modification Number / Title: 7 / Family of Adv Beyond-LI-of-Sight Term/Pres&Nat'l Voice Conf (FAB-T/ PNVC)(OSIP 014-14)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Installation 3 of 3: RS B KIT

Manufacturer Information

Manufacturer Name: Raytheon	Manufacturer Location: Largo, FL
Administrative Leadtime (in Months): 2	Production Leadtime (in Months): 18

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates	Nov 2021						
Delivery Dates	May 2023						

Installation Information

Method of Implementation: [none specified]:: Installation Name: RS B KIT

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	7 / 6.905	- / -	2 / 1.288	4 / 6.641	0 / 0.000	4 / 6.641	1 / 0.741	- / -	- / -	- / -	0 / 0.000	14 / 15.575
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	2 / 1.483	- / -	- / -	- / -	0 / 0.000	2 / 1.483
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	7 / 6.905	- / -	2 / 1.288	4 / 6.641	0 / 0.000	4 / 6.641	3 / 2.224	- / -	- / -	- / -	0 / 0.000	16 / 17.058

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot		
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4				
In	7	-	-	-	-	1	-	1	-	-	-	1	1	2	-	1	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	16
Out	4	1	1	1	-	-	-	1	-	1	-	-	1	1	2	-	1	1	1	-	-	-	-	-	-	-	-	-	-	-	-	16	

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy	Date: March 2023
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Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0564 / E-6 Series	Modification Number / Title: 8 / Mission Systems (OSIP 014-21)
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ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	18.505	14.998	23.373	15.415	0.000	15.415	7.383	13.694	16.379	30.606	0.000	140.353
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) <i>(\$ in Millions)</i>	18.505	14.998	23.373	15.415	0.000	15.415	7.383	13.694	16.379	30.606	0.000	140.353
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	18.505	14.998	23.373	15.415	0.000	15.415	7.383	13.694	16.379	30.606	0.000	140.353

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Dollars)</i>	-	-	-	-	-	-	-	-	-	-	-	-

Description:

DESCRIPTION/JUSTIFICATION: Mission Systems addresses obsolescence and supportability upgrades through technology insertion of commercial and government off the shelf (COTs/GOTs) system integration onto the E-6B. Integration of already qualified airborne systems will be primary solution sets, but if required the ruggedization of the COTs/GOTs from land or water fielded systems will be pursued. Mission Computer Modernization (MCM) (previously known as 64 Bit) will address mission systems obsolescence and associated cyber vulnerabilities by re-hosting latest version of software on 64 Bit compliant hardware architecture.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: MCM NRE FY21-FY22, A kit buys in FY22-FY23, B kit buys FY22-FY23 with installs FY23-FY24.

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy										Date: March 2023			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0564 / E-6 Series					Modification Number / Title: 8 / Mission Systems (OSIP 014-21)			
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: E-6 Series				Modification Type: Capability Improvements				Related RDT&E PEs:					
Financial Plan <small>(*) Indicates the modification is being installed organically and no installation funds are required.</small>	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total	
	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	
Procurement													
1.1.1) MCM A Kit - NonOrganic ⁽¹⁷⁾ <i>Installation 1 of 1</i>	- / -	4 / 0.840	10 / 5.640	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	14 / 6.480	
1.2.1) Installation Kits N/R - Organic ⁽¹⁸⁾	- / 16.843	- / 6.355	- / -	- / -	- / -	- / -	- / -	- / 5.959	- / 8.490	- / 30.606	- / -	- / 68.253	
2.1.1) MCM Upgrade B Kits - Organic ⁽¹⁾	- / -	4 / 5.440	10 / 11.897	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	14 / 17.337	
Subtotal: Procurement	- / 16.843	- / 12.635	- / 17.537	- / -	- / -	- / -	- / -	- / 5.959	- / 8.490	- / 30.606	- / 0.000	- / 92.070	
Support													
3.2) Training	- / -	- / 0.053	- / -	- / 8.128	- / -	- / 8.128	- / 5.257	- / 6.380	- / 6.507	- / -	- / -	- / 26.325	
3.3) Other Support ⁽¹⁹⁾	- / 1.662	- / 2.310	- / 3.893	- / 2.778	- / -	- / 2.778	- / 2.126	- / 1.355	- / 1.382	- / -	- / -	- / 15.506	
Subtotal: Support	- / 1.662	- / 2.363	- / 3.893	- / 10.906	- / -	- / 10.906	- / 7.383	- / 7.735	- / 7.889	- / -	- / 0.000	- / 41.831	
Installation													
Installation 1 of 1: MCM A Kit	- / -	- / -	- / 1.943	- / 4.509	- / 0.000	- / 4.509	- / -	- / -	- / -	- / -	- / 0.000	- / 6.452	
Subtotal: Installation	- / 0.000	- / -	- / 1.943	- / 4.509	- / -	- / 4.509	- / -	- / -	- / -	- / -	- / 0.000	- / 6.452	
Total													
Total Cost (Procurement + Support + Installation)	18.505	14.998	23.373	15.415	0.000	15.415	7.383	13.694	16.379	30.606	0.000	140.353	

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0564 / E-6 Series	Modification Number / Title: 8 / Mission Systems (OSIP 014-21)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Installation 1 of 1: MCM A Kit

Manufacturer Information

Manufacturer Name: TBD	Manufacturer Location: TBD
Administrative Leadtime (in Months): 3	Production Leadtime (in Months): 16

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates	Oct 2021	Oct 2022					
Delivery Dates	Apr 2023	Apr 2024					

Installation Information

Method of Implementation: [none specified]:: Installation Name: MCM A Kit

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	4 / 1.943	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	4 / 1.943
FY 2023	- / -	- / -	- / -	10 / 4.509	0 / 0.000	10 / 4.509	- / -	- / -	- / -	- / -	0 / 0.000	10 / 4.509
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	4 / 1.943	10 / 4.509	0 / 0.000	10 / 4.509	- / -	- / -	- / -	- / -	0 / 0.000	14 / 6.452

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot	
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4			
In	-	-	-	-	-	-	-	2	2	-	-	5	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14
Out	-	-	-	-	-	-	-	2	2	-	-	5	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14

Footnotes:
 (17) MCM kit procurement and installation accelerated due to increased prioritization.
 (18) NRE consists of two A and B kits and two installations for val/ver.
 (19) Other support costs include project management and acquisition support integral to MCM execution.

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0564 / E-6 Series	Modification Number / Title: 9 / In Flight Trainer (002-22)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	0.000	4.991	5.201	1.492	0.000	1.492	0.000	0.000	0.000	0.000	0.000	11.684
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	0.000	4.991	5.201	1.492	0.000	1.492	0.000	0.000	0.000	0.000	0.000	11.684
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	0.000	4.991	5.201	1.492	0.000	1.492	0.000	0.000	0.000	0.000	0.000	11.684

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

DESCRIPTION/JUSTIFICATION: The In Flight Trainer is an E-3D aircraft procured from the United Kingdom. This OSIP will De-militarize and modify the UK E-3D to E-6B to domestic airworthiness standards.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: NRE FY22-24 for de-militarization and modifications; FY23 Ballast A Kit procurement and install. FY24 is final NRE to include flight test and certification following aircraft modification.

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy										Date: March 2023			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0564 / E-6 Series					Modification Number / Title: 9 / In Flight Trainer (002-22)			
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: E-6 Series				Modification Type: TBD				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
<i>Modification Item 1 of 1:</i> In Flight Trainer (002-22)													
A Kits													
Recurring													
1.1.1) Ballast A Kit - NonOrganic ⁽²⁰⁾	- / -	- / -	1 / 0.250	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.250	
<i>Subtotal: Recurring</i>	- / 0.000	- / -	- / 0.250	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 0.250	
Non-Recurring													
1.2.1) De-militarize/Airworthiness - Organic ⁽²¹⁾	- / -	- / 3.756	- / 3.141	- / 1.492	- / -	- / 1.492	- / -	- / -	- / -	- / -	- / -	- / 8.389	
<i>Subtotal: Non-Recurring</i>	- / 0.000	- / 3.756	- / 3.141	- / 1.492	- / -	- / 1.492	- / -	- / -	- / -	- / -	- / 0.000	- / 8.389	
<i>Subtotal: In Flight Trainer (002-22)</i>	- / -	- / 3.756	1 / 3.391	- / 1.492	- / -	- / 1.492	- / -	- / -	- / -	- / -	- / -	1 / 8.639	
<i>Subtotal: Procurement, All Modification Items</i>	- / 0.000	- / 3.756	- / 3.391	- / 1.492	- / -	- / 1.492	- / -	- / -	- / -	- / -	- / 0.000	- / 8.639	
Support (All Modification Items)													
2.1) Other Support	- / -	- / 1.235	- / 1.260	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.495	
<i>Subtotal: Support</i>	- / 0.000	- / 1.235	- / 1.260	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 2.495	
Installation													
<i>Modification Item 1 of 1:</i> In Flight Trainer (002-22)	- / 0.000	- / 0.000	- / 0.550	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.550	
<i>Subtotal: Installation</i>	- / 0.000	- / -	- / 0.550	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 0.550	
Total													
Total Cost (Procurement + Support + Installation)	0.000	4.991	5.201	1.492	0.000	1.492	0.000	0.000	0.000	0.000	0.000	11.684	

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0564 / E-6 Series	Modification Number / Title: 9 / In Flight Trainer (002-22)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Modification Item 1 of 1: In Flight Trainer (002-22)

Manufacturer Information

Manufacturer Name: TBD	Manufacturer Location: TBD
Administrative Leadtime (in Months): 1	Production Leadtime (in Months): 10

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates		Nov 2022					
Delivery Dates		Sep 2023					

Installation Information

Method of Implementation: Drive In:: Installation Name: Ballast A Kit

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	1 / 0.550	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	1 / 0.550
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	1 / 0.550	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	1 / 0.550

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Out	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Footnotes:
⁽²⁰⁾ Ballast A kit and installation required for weight balancing to get aircraft to fly to E-6B flight characteristics.
⁽²¹⁾ FY22-FY24 NRE to fund de-militarization of the E-3D mission systems, removal of the struts and radar on top of the aircraft, determination of weights and balancing required for the aircraft to fly the same as the E-6B, and the required flight testing for flight certification.

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Exhibit P-3a, Individual Modification: PB 2024 Navy	Date: March 2023
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Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0564 / E-6 Series	Modification Number / Title: 10 / Inactive OSIPS
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ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	602.753	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	602.753
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	602.753	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	602.753
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	602.753	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	602.753

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Inactive OSIPs prior year totals.

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Exhibit P-3a, Individual Modification: PB 2024 Navy										Date: March 2023		
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0564 / E-6 Series						Modification Number / Title: 10 / Inactive OSIPS		
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:					
Models of Systems Affected: [No Model Specified]				Modification Type: Inactive				Related RDT&E PEs:				
Financial Plan	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Procurement												
<i>Modification Item 1 of 1:</i> Inactive OSIPS												
A Kits												
Recurring												
1.1.1) Inactive OSIPS - Organic	89 / 602.753	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	89 / 602.753
<i>Subtotal: Recurring</i>	- / 602.753	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 602.753
<i>Subtotal: Inactive OSIPS</i>	89 / 602.753	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	89 / 602.753
<i>Subtotal: Procurement, All Modification Items</i>	- / 602.753	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 602.753
Installation												
<i>Subtotal: Installation</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total												
Total Cost (Procurement + Support + Installation)	602.753	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	602.753

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0564 / E-6 Series	Modification Number / Title: 10 / Inactive OSIPS
ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:	
Modification Item 1 of 1: Inactive OSIPS		

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2024 Navy **Date:** March 2023

Appropriation / Budget Activity / Budget Sub Activity: 1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft	P-1 Line Item Number / Title: 0566 / Executive Helicopters Series
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	904.938	40.158	55.265	60.498	0.000	60.498	69.411	70.798	77.255	80.515	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	904.938	40.158	55.265	60.498	0.000	60.498	69.411	70.798	77.255	80.515	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	904.938	40.158	55.265	60.498	0.000	60.498	69.411	70.798	77.255	80.515	Continuing	Continuing

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

This line item funds modifications to the (11) VH-3D, (7) VH-60N, (1) UH-60N, and (21) VH-92A. Initial Sundown efforts for legacy aircraft commenced in FY 2021. VH-92A Total Aircraft Inventory projected to be 23 in FY 2024 consisting of two Engineering Development Models and four System Demonstration Test Articles purchased with RDT&E funding PE 0604273M and 17 with APN-4 BLI 0455 procured. The overall goal of the budget in FY 2024 is to continue efforts in accordance with the modification strategy to maintain the VH-3D, VH-60N and VH-92A.

OSIP 14-02: VH Comm Upgrade, supports Phase IV of the Wide Band Line of Sight (WBLoS) efforts and future communication upgrades on the VH-3D and VH-60N.

OSIP 016-08: Structural Enhancement Program, continues VH Service Life Extension Program installations on the VH-3D and VH-60N.

OSIP 006-21: VH-92A Improvement Program, provides for the preparation and incorporation of Engineering Change Proposals that are based on added capability and correction of deficiencies, and the implementation of those changes to sustain and improve VH-92A operations. A variety of factors will be addressed including advanced capabilities, communications, vehicle performance, navigation, weight, safety, and training to remain mission relevant. These modifications will also improve readiness and decrease operating costs.

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2024 Navy **Date:** March 2023

Appropriation / Budget Activity / Budget Sub Activity: 1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft	P-1 Line Item Number / Title: 0566 / Executive Helicopters Series
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	1 / VH COMM UPGRADE (OSIP 014-02) (SAFETY)				- / 165.903	- / 0.886	- / 1.100	- / 0.500	- / 0.000	- / 0.500
P-3a	2 / VH STRUCTURAL ENHANCEMENTS (OSIP 016-08) (SAFETY)				- / 39.840	- / 5.070	- / 1.806	- / 0.000	- / 0.000	- / 0.000
P-3a	3 / VH-92A IMPROVEMENT PROGRAM (OSIP 006-21) (SAFETY)				- / 17.722	- / 34.202	- / 52.359	- / 59.998	- / 0.000	- / 59.998
P-3a	4 / Inactive OSIPs (SAFETY)				- / 681.473	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000
P-40	Total Gross/Weapon System Cost				- / 904.938	- / 40.158	- / 55.265	- / 60.498	- / 0.000	- / 60.498

Exhibits Schedule					FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	1 / VH COMM UPGRADE (OSIP 014-02) (SAFETY)				- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 168.389
P-3a	2 / VH STRUCTURAL ENHANCEMENTS (OSIP 016-08) (SAFETY)				- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 46.716
P-3a	3 / VH-92A IMPROVEMENT PROGRAM (OSIP 006-21) (SAFETY)				- / 69.411	- / 70.798	- / 77.255	- / 80.515	Continuing	Continuing
P-3a	4 / Inactive OSIPs (SAFETY)				- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 681.473
P-40	Total Gross/Weapon System Cost				- / 69.411	- / 70.798	- / 77.255	- / 80.515	Continuing	Continuing

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

Justification:
 Funds are required to continue efforts in accordance with the modification strategy to maintain the VH-3D, VH-60N and VH-92A. The increase from FY 2023 to FY 2024 is required due to the Legacy aircraft sundown plan extending past the original sundown plan; along with, the number of VH-92A aircraft available for retrofits in FY 2024 increases from 17 A/C to 21 A/C (24% increase)

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0566 / Executive Helicopters Series	Modification Number / Title: 1 / VH COMM UPGRADE (OSIP 014-02)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	165.903	0.886	1.100	0.500	0.000	0.500	0.000	0.000	0.000	0.000	0.000	168.389
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	165.903	0.886	1.100	0.500	0.000	0.500	0.000	0.000	0.000	0.000	0.000	168.389
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	165.903	0.886	1.100	0.500	0.000	0.500	0.000	0.000	0.000	0.000	0.000	168.389

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

DESCRIPTION/JUSTIFICATION:

In support of the Senior Leaders Communications, a Wideband Line of Sight (WBLoS) system is required. Prior year efforts include the FM (YZ) radio replacements on the VH-3D and VH-60N aircraft to maintain crypto security requirements, as well as all related software/firmware modifications. In FY 2016 procurements commenced for a new radio, antenna, associated accessories, aircraft Operational Flight Programs (OFP) and aircraft integration.

WBLoS consists of two systems: Hydra Light and Crisis Management. The Hydra Light system consists of a radio, antenna, and amplifier (RFE) that provide the means for a Voice over IP (VoIP) call to be made using the Phoenix Air-to-Ground Communications Network (PAGCN) structure. The Crisis Management system is the router, call manager, and High Assurance Internet Protocol Encryptor (HAIPE) required to connect into the TS/SCI network controlled by DISA. Due to the unique challenges of the aircraft platform (limited space, weight, power, cooling, etc), the WBLoS effort was set up in phases to allow for the hardware development and maturation of technology, which is then employed through phases via software modifications to the radio and/or ground equipment after initial installations. Phase III of the four phase WBLoS effort began in FY 2017 and included the Non Recurring Engineering (NRE) for an upgraded software OFP that will provide the capability for a single WBLoS Terminal to communicate with more than one Ground Entry Point (GEP) at a time in order to minimize transition time between GEPs. It also included the testing and verification of that software. Phase IV, began in FY 2019 and continues through FY 2024. Phase IV includes a network upgrade to reduce anticipated packet routing delays due to limitations of Open Shortest Path First (OSPF) protocol when transitioning from GEP to GEP. Global Positioning System (GPS) enhancements support the VH requirement of seamless transitions between GEPs. Development and deployment of enhanced capabilities through phases (via software and modifications to the radio and/or ground equipment) continue after initial installations. As of 22 April 2016, the VH-3D and VH-60N WBLoS communication capability efforts received a Deputy Assistant Secretary of the Navy signed exception to the prohibitions of 10 USC 2244a relating to the modification of aircraft within five years of retirement and disposal.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: In FY 2013, the Deputy Secretary of Defense (DEPSECDEF) initiated the requirement for the WBLoS capability. Research and development efforts began in FY 2014 for this effort; the procurement efforts began in FY 2016. Non recurring engineering efforts for Phase III began in FY 2017. Phase IV software upgrades began in FY 2019.

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Exhibit P-3a, Individual Modification: PB 2024 Navy										Date: March 2023			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0566 / Executive Helicopters Series					Modification Number / Title: 1 / VH COMM UPGRADE (OSIP 014-02)			
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: VH-60N/VH-3D				Modification Type: SAFETY				Related RDT&E PEs:					
Financial Plan <small>(*) Indicates the modification is being installed organically and no installation funds are required.</small>	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total	
	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	
Procurement													
1.1.1) VH-3D Comm Upgrade (WBLoS) Crisis Management System - Organic ^(*)	11 / 0.579	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	11 / 0.579	
1.1.2) Archived A Kits - Organic ^(*)	107 / 9.914	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	107 / 9.914	
1.2.1) Installation Kits N/R - Organic ^(*)	- / 12.516	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 12.516	
2.1.1) Archived B Kit - Organic ^(*)	127 / 34.823	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	127 / 34.823	
2.2.1) Installation Equipment N/R - Organic ^(*)	- / 15.587	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 15.587	
Subtotal: Procurement	- / 73.419	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 73.419	
Support													
3.1) Engineering Change Orders	- / 2.576	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.576	
3.2) Data	- / 10.416	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 10.416	
3.3) Software	- / 13.733	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 13.733	
3.4) Training Equipment	- / 4.894	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 4.894	
3.5) Support Equipment	- / 10.127	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 10.127	
3.7) Other Support ⁽¹⁾	- / 50.738	- / 0.886	- / 1.100	- / 0.500	- / -	- / 0.500	- / -	- / -	- / -	- / -	- / -	- / 53.224	
Subtotal: Support	- / 92.484	- / 0.886	- / 1.100	- / 0.500	- / -	- / 0.500	- / -	- / -	- / -	- / -	- / 0.000	- / 94.970	
Installation													
Subtotal: Installation	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
Total													
Total Cost (Procurement + Support + Installation)	165.903	0.886	1.100	0.500	0.000	0.500	0.000	0.000	0.000	0.000	0.000	168.389	
Footnotes:													
⁽¹⁾ Cost Element 3.7: Funding required to ensure communication interoperability through the remainder of the VH-3D and VH-60N aircraft lifecycle													

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0566 / Executive Helicopters Series	Modification Number / Title: 2 / VH STRUCTURAL ENHANCEMENTS (OSIP 016-08)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	39.840	5.070	1.806	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	46.716
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	39.840	5.070	1.806	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	46.716
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	39.840	5.070	1.806	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	46.716

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

DESCRIPTION/JUSTIFICATION: FY 2023 completed this OSIP.

The VH Structural Enhancement Program consists of the efforts to implement aircraft safety of flight structural modifications to extend the service lives of the VH-3D and VH-60N airframes. The VH-3D and VH-60N must stay in service to support mission needs until the completion of the fielding of the VH-92A aircraft. In order to meet the usage requirements, a Service Life Extension Program (SLEP) was established to implement the safety of flight upgrades identified in the Service Life Assessment Program (SLAP). The SLEP extends the service life of the VH-60N and VH-3D by 4,000 hours.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: Non-Recurring Engineering for the VH-3D and VH-60N Service Life Extensions began in FY 2012. The VH-3D SLEP kits were procured in FY 2013 via a Life of Type procurement due to lack of component part availability. The VH-60N SLEP Kit procurement began in FY 2015. Validation and Verification efforts occurred in FY 2017. Installs are to follow the Special Progressive Aircraft Rework (SPAR) schedule which began in FY 2018. FY 2023 completed this OSIP.

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Exhibit P-3a, Individual Modification: PB 2024 Navy										Date: March 2023			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0566 / Executive Helicopters Series					Modification Number / Title: 2 / VH STRUCTURAL ENHANCEMENTS (OSIP 016-08)			
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: VH-3D/VH-60N				Modification Type: SAFETY				Related RDT&E PEs:					
Financial Plan <small>(*) Indicates the modification is being installed organically and no installation funds are required.</small>	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total	
	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	
Procurement													
1.1.1) VH-60N SLEP Kits - NonOrganic ⁽²⁾ <i>Installation 1 of 2</i>	8 / 0.227	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	8 / 0.227	
1.1.2) VH-3D SLEP Kits - NonOrganic ⁽³⁾ <i>Installation 2 of 2</i>	11 / 0.896	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	11 / 0.896	
1.2.1) Installation Kits N/R - Organic ⁽¹⁾	- / 8.229	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 8.229	
2.2.1) Installation Equipment N/R - Organic ⁽¹⁾	- / 0.918	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.918	
Subtotal: Procurement	- / 10.270	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 10.270	
Support													
3.4) Support Equipment	- / 5.743	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 5.743	
3.5) ILS	- / 0.120	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.120	
3.7) Other Support ⁽⁴⁾	- / 14.691	- / 0.772	- / 0.706	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 16.169	
Subtotal: Support	- / 20.554	- / 0.772	- / 0.706	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 22.032	
Installation													
Installation 1 of 2: VH-60N SLEP Kits	- / 2.458	- / 0.998	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 3.456	
Installation 2 of 2: VH-3D SLEP Kits	- / 6.558	- / 3.300	- / 1.100	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 10.958	
Subtotal: Installation	- / 9.016	- / 4.298	- / 1.100	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 14.414	
Total													
Total Cost (Procurement + Support + Installation)	39.840	5.070	1.806	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	46.716	

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0566 / Executive Helicopters Series	Modification Number / Title: 2 / VH STRUCTURAL ENHANCEMENTS (OSIP 016-08)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Installation 1 of 2: VH-60N SLEP Kits

Manufacturer Information

Manufacturer Name: Sikorsky Aircraft Corporation - VH Service Life Extension Program VH-60N	Manufacturer Location: Stratford, CT
Administrative Leadtime (in Months): 1	Production Leadtime (in Months): 11

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates							
Delivery Dates							

Installation Information

Method of Implementation: Contractor Field Mod Team:: Installation Name: VH-60N SLEP Kits

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	5 / 2.458	2 / 0.998	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	7 / 3.456
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	5 / 2.458	2 / 0.998	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	7 / 3.456

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot	
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4			
In	5	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7
Out	3	1	-	1	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0566 / Executive Helicopters Series	Modification Number / Title: 2 / VH STRUCTURAL ENHANCEMENTS (OSIP 016-08)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Installation 2 of 2: VH-3D SLEP Kits

Manufacturer Information

Manufacturer Name: Sikorsky Aircraft Corporation - VH Service Life Extension Program VH-3D	Manufacturer Location: Stratford, CT
Administrative Leadtime (in Months): 0	Production Leadtime (in Months): 11

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates							
Delivery Dates							

Installation Information

Method of Implementation: Contractor Field Mod Team:: Installation Name: VH-3D SLEP Kits

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	6 / 6.558	3 / 3.300	1 / 1.100	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	10 / 10.958
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	6 / 6.558	3 / 3.300	1 / 1.100	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	10 / 10.958

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot	
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4			
In	6	1	1	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10
Out	3	1	1	1	1	1	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10

Footnotes:
 (2) Cost Element 1.1.1: One VH-60N SLEP Kit procured in FY 2015 was previously installed as the validation kit in FY 2017.
 (3) Cost Element 1.1.2: Kit 11 will not be installed on aircraft in FY 2024 due to retirement time line and the kit will be held at location until all aircraft have been retired.

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0566 / Executive Helicopters Series	Modification Number / Title: 2 / VH STRUCTURAL ENHANCEMENTS (OSIP 016-08)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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⁽⁴⁾ Cost Element 3.7: Funding required for labor for the installation of the SLEP kits during SPAR and to support structural enhancements throughout the VH-3D and VH-60N aircraft lifecycle.

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0566 / Executive Helicopters Series	Modification Number / Title: 3 / VH-92A IMPROVEMENT PROGRAM (OSIP 006-21)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	17.722	34.202	52.359	59.998	0.000	59.998	69.411	70.798	77.255	80.515	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	17.722	34.202	52.359	59.998	0.000	59.998	69.411	70.798	77.255	80.515	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	17.722	34.202	52.359	59.998	0.000	59.998	69.411	70.798	77.255	80.515	Continuing	Continuing

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

DESCRIPTION/JUSTIFICATION: The VH-92A provides safe, reliable, and timely transportation for the President, Vice President, Foreign Heads of State, and other official parties as directed by the Director of the White House Military Office. VH-92A Improvement Program provides near and long-term improvements to the fleet, focusing on documented deficiencies related to mission systems, maintainability, incorporates pre-planned product improvements defined in the VH-92A Capabilities Development Document update in lieu of a Capability Production Document, and future product improvements. These modifications and selected component changes are being accomplished by depot level maintenance or field retrofit. Funds will manage, prepare, process and incorporate airframe and avionics Engineering Change Proposals (ECP) based on added capability and corrections of deficiencies, and implement those changes to sustain and improve VH-92A operations and will be identified in the P-3a exhibit as they are approved. ECPs will be implemented to coincide with resources and aircraft availability.

AIRFRAME ECPs: Airframe corrections include all structural components, mounts, cowlings, landing gear, fuselage, propulsion, cabin interior, aircraft support equipment, and various dynamic components. Planned effort includes Air Vehicle performance enhancements, reliability and maintainability, and ancillary power upgrades.

AVIONICS ECPs: Modifications, other than structural deficiencies, are required to ensure safety of flight, aero-performance and maintainability. Avionics systems corrections include aircrew avionics, data, displays, controls, flight management systems, avionics management systems, navigation and safety systems, diagnostic systems, training systems and communication systems. Planned efforts include software and hardware upgrades to the Mission Communication System (MCS), Automatic Dependent Surveillance Broadcast (ADSB) Out, and diagnostic systems. ADSB Out efforts are to comply with Federal Aviation Administration mandates to improve aircraft navigation in national airspace. MCS consists of all narrowband and wideband radios, intercoms, user interfaces, and control systems necessary to support command and mission communications requirements and essential services. Diagnostic upgrades include enhancements for increased detection of critical safety of flight systems.

OBsolescence: In order to mitigate the risk of Diminishing Manufacturing Sources and Material Shortages (DMSMS), the VH-92A program has a proactive plan to manage the risk associated with obsolescence issues. DMSMS includes material obsolescence which may occur at the part, module, component, equipment, or other system indenture level. These situations may cause material shortages that endanger VH-92A capabilities, readiness, and life cycle support. Preliminary efforts include the incorporation of system bill of materials for active monitoring into predictive tools to prioritize and determine risk associated with possible DMSMS occurrences. When issues arise, the solution involves procurement from alternate sources, substitution of components, life of type buys, emulation of components, or ultimately system redesign requiring the modification of VH-92A systems. Obsolescence kit procurements will be focused in the areas of air vehicle, mission systems and avionics.

The 9% (\$5.233M) increase in BLI 0566, Executive Helicopter Series, in FY24 is attributed to VH-92A modifications associated with this OSIP (006-21). The degree of growth for this OSIP is attributed to the MCS 5.0 ECP incorporation and installation of prior year MCS 4.0 kit procurements. These funds are required to incorporate the following:

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0566 / Executive Helicopters Series	Modification Number / Title: 3 / VH-92A IMPROVEMENT PROGRAM (OSIP 006-21)
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:
<p>- A & B kit procurements increased by \$2.305M/30% in FY24 for initial purchases of Mission Communication System (MCS) 5.0 kits to incorporate upgrades to existing and additional executive phones, Mobile User Objective System, and Wideband Beyond Line of Sight equipment.</p> <p>-NRE and modification Installations increased by \$7.708M/34% in FY24. The NRE is required for MCS 5.0 ECP incorporation, installation tooling, validation and verification of corrections of deficiencies, and to address obsolescence issues. The installation funds are also required to install prior year MCS 4.0 kit procurements.</p> <p>- Support cost decreased by \$2.374M/11%.</p> <p>There is high confidence that this funding level is appropriate and executable for the aircraft available for retrofit. If funds are not made available, critical correction of deficiencies and emergency service communication enhancements will be delayed or not implemented, and requirements for Full Operation Capability will be delayed. Aircraft readiness will be negatively affected along with adverse impacts to global communications capability and survivability. This would degrade overall aircraft performance and mission effectiveness.</p> <p>DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: The Milestone B Acquisition Decision Memorandum was signed 17 April 2014 and the VH-92A contract for the Engineering and Manufacturing Development phase and priced options for production was awarded on 7 May 2014. The Milestone C Acquisition Decision Memorandum was signed on 7 June 2019. Initial Operational Test & Evaluation was completed in April 2021. The Initial Operational Capability milestone was achieved in December 2021.</p>		

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Exhibit P-3a, Individual Modification: PB 2024 Navy										Date: March 2023			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0566 / Executive Helicopters Series					Modification Number / Title: 3 / VH-92A IMPROVEMENT PROGRAM (OSIP 006-21)			
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: VH-92A			Modification Type: SAFETY				Related RDT&E PEs:						
Financial Plan	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
Modification Item 1 of 1: VH-92A IMPROVEMENT PROGRAM (OSIP 006-21)													
A Kits													
Recurring													
1.1.1) Mission Communications System Server Hardware - Organic	26 / 2.210	16 / 1.360	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	42 / 3.570	
1.1.3) ADSB Out - NonOrganic	4 / 2.740	6 / 4.110	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	10 / 6.850	
1.1.4) Airframe Modification - Organic	- / -	14 / 1.826	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	14 / 1.826	
1.1.5) Avionics Modification - Organic	- / -	14 / 4.128	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	14 / 4.128	
1.1.6) Advanced Capabilities Avionics Modification - Organic	1 / 2.000	1 / 2.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 4.000	
1.1.7) Avionics Modification MCS 4.0 - NonOrganic ⁽⁵⁾	- / -	- / -	10 / 1.575	11 / 1.600	- / -	11 / 1.600	- / -	- / -	- / -	- / -	- / -	21 / 3.175	
1.1.8) Avionics Modification MCS 5.0 - NonOrganic	- / -	- / -	- / -	- / -	- / -	- / -	3 / 4.611	4 / 6.259	4 / 6.371	4 / 6.486	6 / 9.964	21 / 33.691	
Subtotal: Recurring	- / 6.950	- / 13.424	- / 1.575	- / 1.600	- / -	- / 1.600	- / 4.611	- / 6.259	- / 6.371	- / 6.486	- / 9.964	- / 57.240	
Non-Recurring													
1.2.1) Installation Kits N/R - Organic ⁽⁶⁾	- / -	- / 2.432	- / 12.799	- / 15.669	- / -	- / 15.669	- / 19.192	- / 10.616	- / 10.817	- / 12.619	Continuing	Continuing	
1.2.2) Shipboard Interoperability NRE - Organic	- / 1.500	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.500	
1.2.3) Advanced Capabilities Avionics NRE - Organic	- / 3.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 3.000	
Subtotal: Non-Recurring	- / 4.500	- / 2.432	- / 12.799	- / 15.669	- / -	- / 15.669	- / 19.192	- / 10.616	- / 10.817	- / 12.619	Continuing	Continuing	
B Kits													
Recurring													
2.1.3) Avionics Modification MCS 3.3 - Organic ⁽⁷⁾	- / -	- / -	19 / 3.465	2 / 0.277	- / -	2 / 0.277	- / -	- / -	- / -	- / -	- / -	21 / 3.742	
2.1.4) Avionics Modification MCS 4.0 - Organic	- / -	- / -	9 / 2.520	10 / 2.586	- / -	10 / 2.586	2 / 0.469	- / -	- / -	- / -	- / -	21 / 5.575	
2.1.5) Avionics Modification MCS 5.0 - Organic ⁽⁸⁾	- / -	- / -	- / -	2 / 5.402	- / -	2 / 5.402	3 / 8.247	4 / 11.194	4 / 11.395	4 / 11.601	4 / 11.809	21 / 59.648	
Subtotal: Recurring	- / 0.000	- / -	- / 5.985	- / 8.265	- / -	- / 8.265	- / 8.716	- / 11.194	- / 11.395	- / 11.601	- / 11.809	- / 68.965	
Non-Recurring													
2.2.1) VH-92A Obsolescence NRE - Organic ⁽⁹⁾	- / -	- / 1.540	- / 1.960	- / 2.462	- / -	- / 2.462	- / 3.556	- / 3.569	- / 4.132	- / 4.211	Continuing	Continuing	
2.2.2) Installation Equipment N/R - Organic ⁽¹⁰⁾	- / -	- / -	- / 7.775	- / 7.181	- / -	- / 7.181	- / 7.423	- / 7.464	- / 8.383	- / 8.542	Continuing	Continuing	
Subtotal: Non-Recurring	- / 0.000	- / 1.540	- / 9.735	- / 9.643	- / -	- / 9.643	- / 10.979	- / 11.033	- / 12.515	- / 12.753	Continuing	Continuing	

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Exhibit P-3a, Individual Modification: PB 2024 Navy										Date: March 2023			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0566 / Executive Helicopters Series					Modification Number / Title: 3 / VH-92A IMPROVEMENT PROGRAM (OSIP 006-21)			
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: VH-92A				Modification Type: SAFETY				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
<i>Subtotal: VH-92A IMPROVEMENT PROGRAM (OSIP 006-21)</i>	31 / 11.450	51 / 17.396	38 / 30.094	25 / 35.177	- / -	25 / 35.177	8 / 43.498	8 / 39.102	8 / 41.098	8 / 43.459	Continuing	Continuing	
<i>Subtotal: Procurement, All Modification Items</i>	- / 11.450	- / 17.396	- / 30.094	- / 35.177	- / -	- / 35.177	- / 43.498	- / 39.102	- / 41.098	- / 43.459	Continuing	Continuing	
Support (All Modification Items)													
3.1) Data ⁽¹¹⁾	- / 0.107	- / 0.402	- / 0.410	- / 0.378	- / -	- / 0.378	- / 0.391	- / 0.398	- / 0.442	- / 0.450	Continuing	Continuing	
3.2) Software ⁽¹²⁾	- / -	- / 3.363	- / 4.725	- / 4.815	- / -	- / 4.815	- / 4.906	- / 4.999	- / 5.094	- / 5.191	Continuing	Continuing	
3.3) Training Equipment ⁽¹³⁾	- / 0.705	- / 3.089	- / 3.530	- / 1.095	- / -	- / 1.095	- / 1.132	- / 1.153	- / 1.278	- / 1.302	Continuing	Continuing	
3.4) Support Equipment	- / -	- / 0.445	- / 0.453	- / 0.419	- / -	- / 0.419	- / 0.433	- / 0.440	- / 0.489	- / 0.498	Continuing	Continuing	
3.5) ILS ⁽¹⁴⁾	- / 0.321	- / 1.721	- / 2.278	- / 2.104	- / -	- / 2.104	- / 2.175	- / 2.216	- / 2.456	- / 2.503	Continuing	Continuing	
3.6) Other Support	- / 5.139	- / 5.242	- / 5.364	- / 5.467	- / -	- / 5.467	- / 5.596	- / 5.727	- / 5.877	- / 6.044	Continuing	Continuing	
3.7) MCS Support ⁽¹⁵⁾	- / -	- / -	- / 5.385	- / 5.493	- / -	- / 5.493	- / 5.625	- / 5.757	- / 5.907	- / 6.176	Continuing	Continuing	
<i>Subtotal: Support</i>	- / 6.272	- / 14.262	- / 22.145	- / 19.771	- / -	- / 19.771	- / 20.258	- / 20.690	- / 21.543	- / 22.164	Continuing	Continuing	
Installation													
<i>Modification Item 1 of 1: VH-92A IMPROVEMENT PROGRAM (OSIP 006-21)</i>	- / 0.000	- / 2.544	- / 0.120	- / 5.050	- / 0.000	- / 5.050	- / 5.655	- / 11.006	- / 14.614	- / 14.892	- / 38.516	- / 92.397	
<i>Subtotal: Installation</i>	- / 0.000	- / 2.544	- / 0.120	- / 5.050	- / -	- / 5.050	- / 5.655	- / 11.006	- / 14.614	- / 14.892	- / 38.516	- / 92.397	
Total													
Total Cost (Procurement + Support + Installation)	17.722	34.202	52.359	59.998	0.000	59.998	69.411	70.798	77.255	80.515	Continuing	Continuing	

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0566 / Executive Helicopters Series	Modification Number / Title: 3 / VH-92A IMPROVEMENT PROGRAM (OSIP 006-21)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Modification Item 1 of 1: VH-92A IMPROVEMENT PROGRAM (OSIP 006-21)

Manufacturer Information

Manufacturer Name: Sikorsky Aircraft Corp				Manufacturer Location: Stratford, CT			
Administrative Leadtime (in Months): 9				Production Leadtime (in Months): 12			
Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates	Jun 2022						
Delivery Dates	Jun 2023						

Manufacturer Name: Sikorsky Aircraft Corp - MCS 4.0				Manufacturer Location: Stratford, CT			
Administrative Leadtime (in Months): 2				Production Leadtime (in Months): 12			
Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates		Dec 2022	Dec 2023				
Delivery Dates		Dec 2023	Dec 2024				

Manufacturer Name: Sikorsky Aircraft Corp - MCS 5.0				Manufacturer Location: Stratford, CT			
Administrative Leadtime (in Months): 2				Production Leadtime (in Months): 15			
Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates				Dec 2024	Dec 2025	Dec 2026	Dec 2027
Delivery Dates				Mar 2026	Mar 2027	Mar 2028	Mar 2029

Installation Information

Method of Implementation: Depot Install:: Installation Name: ADSB Out

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	4 / 2.544	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	4 / 2.544
FY 2022	- / -	- / -	6 / 0.120	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	6 / 0.120
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	4 / 2.544	6 / 0.120	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	10 / 2.664

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0566 / Executive Helicopters Series	Modification Number / Title: 3 / VH-92A IMPROVEMENT PROGRAM (OSIP 006-21)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Modification Item 1 of 1: VH-92A IMPROVEMENT PROGRAM (OSIP 006-21)

Installation Information

Method of Implementation: Depot Install:: Installation Name: ADSB Out

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot	
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4			
In	-	-	-	2	2	-	-	3	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10
Out	-	-	-	-	2	2	-	-	3	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10

Method of Implementation: [none specified]:: Installation Name: Avionics Modification MCS 4.0

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	10 / 5.050	0 / 0.000	10 / 5.050	- / -	- / -	- / -	- / -	0 / 0.000	10 / 5.050
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	11 / 5.655	- / -	- / -	- / -	0 / 0.000	11 / 5.655
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	10 / 5.050	0 / 0.000	10 / 5.050	11 / 5.655	- / -	- / -	- / -	0 / 0.000	21 / 10.705

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	2	2	3	3	2	3	3	3	-	-	-	-	-	-	-	-	-	-	-	-	-	21
Out	-	-	-	-	-	-	-	-	-	-	2	2	3	3	2	3	3	3	-	-	-	-	-	-	-	-	-	-	-	-	21

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0566 / Executive Helicopters Series	Modification Number / Title: 3 / VH-92A IMPROVEMENT PROGRAM (OSIP 006-21)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Modification Item 1 of 1: VH-92A IMPROVEMENT PROGRAM (OSIP 006-21)

Installation Information

Method of Implementation: [none specified]:: Installation Name: Avionics Modification MCS 5.0

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3 / 11.006	- / -	- / -	0 / 0.000	3 / 11.006
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4 / 14.614	- / -	0 / 0.000	4 / 14.614
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4 / 14.892	0 / 0.000	4 / 14.892
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4 / 15.175	4 / 15.175
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	6 / 23.341	6 / 23.341
Total	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3 / 11.006	4 / 14.614	4 / 14.892	10 / 38.516	21 / 79.028

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot	
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4			
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	1	1	1	1	1	1	1	1	1	1	10	21
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	1	1	1	1	1	1	13	21	

Method of Implementation (Organic): Mission Communications System Server Hardware	Installation Quantity: 42
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Method of Implementation (Organic): Airframe Modification	Installation Quantity: 14
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Method of Implementation (Organic): Avionics Modification	Installation Quantity: 14
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Method of Implementation (Organic): Advanced Capabilities Avionics Modification	Installation Quantity: 2
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Method of Implementation (Organic): Avionics Modification MCS 3.3	Installation Quantity: 21
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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0566 / Executive Helicopters Series	Modification Number / Title: 3 / VH-92A IMPROVEMENT PROGRAM (OSIP 006-21)
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:
Modification Item 1 of 1: VH-92A IMPROVEMENT PROGRAM (OSIP 006-21)		
Installation Information		
Method of Implementation (Organic): Avionics Modification MCS 4.0		Installation Quantity: 21
Method of Implementation (Organic): Avionics Modification MCS 5.0		Installation Quantity: 21
<p>Footnotes:</p> <p>(5) Cost Element 1.1.7: Avionics Modifications MCS 4.0 funds are required for analog audio capability and required security updates.</p> <p>(6) Cost Element 1.2.1: Increasing Non-Recurring funds from FY 2023 to FY 2024 is required to integrate Mission Communication System (MCS) 5.0 capabilities. Installation Kits N/R costs are required for the Airframe and Avionics ECP preparation, tooling, GFE updates, correction of deficiencies coming out of Operational Test & Evaluation, MCS software integration, and platform validation/verification efforts.</p> <p>(7) Cost Element 2.1.3: Avionics Modifications MCS 3.3 funding is required for Intercommunications System certification, upgrades to the server and Wireless Access Point, and ongoing correction of deficiencies for MCS software.</p> <p>(8) Cost Element 2.1.5: Production lead time for MCS 5.0 installation equipment is 20 months. Avionics Modifications MCS 5.0 funding required for data capacity upgrades for wideband Satellite Communications (SATCOM), Common Executive Phone (CEP) integration, communications at all seats, inter-communications system updates, security upgrades, user interface and improved user diagnostics, and Mobile User Objective System (MUOS) integration.</p> <p>(9) Cost Element 2.2.1: Increasing VH-92A Obsolescence NRE funding is required to address obsolescence issues with radios, antenna, and various system vehicle avionics critical to VH-92A operation and baseline vehicle communications.</p> <p>(10) Cost Element 2.2.2: MCS 5.0 installation equipment NRE in FY24 and FY25 is not for design of the installation equipment, it is for integration testing and FAA certification required to support the first two (2) MCS 5.0 installations on operational aircraft beginning in FY26.</p> <p>(11) Cost Element 3.1: Data funding is required to update Interactive Electronic Technical Manuals and publications for all modifications.</p> <p>(12) Cost Element 3.2: Software funding is required for continued upgrades/modifications to the MCS.</p> <p>(13) Cost Element 3.3: Training Equipment funding is required to ensure all training devices delivered to the fleet (flight trainers, maintenance trainer, system emulation maintenance trainer, Communication System Operator trainer, aircraft cockpit procedures trainer, and courseware) are concurrent with latest aircraft configuration changes as they are upgraded for various avionics and communication systems.</p> <p>(14) Cost Element 3.5: ILS funding is required to support the management of closed loop supply of new A and B kits required for aircraft modifications prior to and upon delivery.</p> <p>(15) Cost Element 3.7: MCS Support funds are required for VH-92A MCS Specific organic engineering support, technical support and technical project management.</p>		

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0566 / Executive Helicopters Series	Modification Number / Title: 4 / Inactive OSIPs

ID Code (A=Service Ready, B=Not Service Ready) : _____ **MDAP/MAIS Code:** _____

Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	681.473	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	681.473
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	681.473	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	681.473
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	681.473	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	681.473

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Obsolescence Management Program OSIP 023-09 completed in FY 2020 and has been moved to In-Active OSIPs.
 VH-3D Cockpit Upgrade OSIP 010-12 completed in FY 2019 and has been moved to In-Active OSIPs.
 VH-3D Lift Improvement Program (LIP) OSIP 011-06 completed in FY 2012 and has been moved to In-Active OSIPs.
 VH-60N Cockpit Upgrade OSIP 009-02 completed in FY 2016 and has been moved to In-Active OSIPs.
 VH-3D/VH-60N Trainer Conversion OSIP 009-11 completed in FY 2016 and has been moved to In-Active OSIPs.

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Exhibit P-3a, Individual Modification: PB 2024 Navy										Date: March 2023		
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0566 / Executive Helicopters Series						Modification Number / Title: 4 / Inactive OSIPs		
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:					
Models of Systems Affected: VH-3D / VH-60N				Modification Type: SAFETY				Related RDT&E PEs:				
Financial Plan <small>(*) Indicates the modification is being installed organically and no installation funds are required.</small>	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>
Procurement												
1.2.1) Inactive OSIPs - Organic ^(*)	- / 681.473	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 681.473
<i>Subtotal: Procurement</i>	- / 681.473	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 681.473
Installation												
<i>Subtotal: Installation</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total												
Total Cost (Procurement + Support + Installation)	681.473	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	681.473

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Exhibit P-40, Budget Line Item Justification: PB 2024 Navy **Date:** March 2023

Appropriation / Budget Activity / Budget Sub Activity: 1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft	P-1 Line Item Number / Title: 0569 / T-45 Series
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	1,574.864	155.366	199.356	170.357	0.000	170.357	169.978	182.577	186.029	192.593	165.995	2,997.115
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	1,574.864	155.366	199.356	170.357	0.000	170.357	169.978	182.577	186.029	192.593	165.995	2,997.115
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	1,574.864	155.366	199.356	170.357	0.000	170.357	169.978	182.577	186.029	192.593	165.995	2,997.115

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

This line item funds modifications to T-45 Training System (T45TS) which encompasses both aircraft and Ground-Based Training Systems (GBTS). Current inventory is 193 Aircraft. The T-45 Goshawk is a tandem-seat, carrier capable derivative of the existing British Aerospace Hawk aircraft powered by a single Rolls Royce Adour engine. It serves as the aircraft component of the T45TS integrated jet pilot training system. The overall goal of the modifications budgeted is to correct discrepancies and deficiencies discovered after delivery of the aircraft and to commence upgrades to the aircraft cockpit and navigation systems. T-45 aircraft and simulators are facing critical avionics obsolescence and Diminishing Manufacturing Sources and Material Shortages (DMSMS) issues.

Operational Safety and Improvement Program (OSIP) 008-95 - Corrections of Deficiencies was established to resolve safety and reliability issues, improve required mission capabilities and correct in-service deficiencies to aircraft components.

OSIP 003-03 - Engine Surge was established to resolve engine surge critical safety issues.

OSIP 017-04 - Avionics Obsolescence funds continuing avionics obsolescence and DMSMS issues and implements safety related avionics upgrades.

OSIP 022-14 - Service Life Extension Program (SLEP) funds correction of deficiencies discovered in the Service Life Assessment Program (SLAP), which identified risk areas that must be addressed in order to extend the aircraft service life.

OSIP 006-16 - Required Avionics Sustainment Program (RASP) will modify the T45TS with the Automatic Dependent Surveillance-Broadcast Out (ADS-B Out) Capability to comply with the January 1, 2020 Federal Aviation Administration (FAA) National Airspace Systems Mandate as well as other FAA and Navigation mandates. Additionally, the T-45 Navigation source Global Positioning System Inertial Navigation Assembly (GINA) will be updated to address obsolescence.

OSIP 012-19 - Physiological Episode Mitigation funds modifications to the T-45 training system to address aircrew Physiological Episodes (PE).

The designed service life of the aircraft was 14,400 hours and reduced as a result of Service Life Assessment Program (SLAP) analysis to 13,000 hours.

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Exhibit P-40, Budget Line Item Justification: PB 2024 Navy **Date: March 2023**

Appropriation / Budget Activity / Budget Sub Activity:
1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft

P-1 Line Item Number / Title:
0569 / T-45 Series

ID Code (A=Service Ready, B=Not Service Ready): A **Program Elements for Code B Items:** N/A **Other Related Program Elements:** N/A

Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	1 / T-45TS Corrections of Deficiencies (OSIP 008-95) (Safety, Reliability, Increased Service Life, Improved Mission Capabilities)				- / 418.016	- / 12.030	- / 17.116	- / 17.735	- / 0.000	- / 17.735
P-3a	2 / Engine Surge (OSIP 003-03) (PS Safety)				- / 227.532	- / 47.423	- / 48.100	- / 38.861	- / 0.000	- / 38.861
P-3a	3 / Avionics Obsolescence (OSIP 017-04) (PS Safety)				- / 373.662	- / 41.592	- / 73.039	- / 64.852	- / 0.000	- / 64.852
P-3a	4 / Service Life Extension Program (SLEP) (022-14) (Safety, Reliability, Increased Service Life, Improved Mission Capabilities)				- / 268.352	- / 38.036	- / 40.682	- / 28.753	- / 0.000	- / 28.753
P-3a	5 / Required Avionics Sustainment Program (RASP) (006-16) (Safety, Reliability, Increased Service Life, Improved Mission Capabilities)				- / 103.521	- / 8.844	- / 13.302	- / 12.530	- / 0.000	- / 12.530
P-3a	6 / Physiological Episode Mitigation (OSIP 012-19) (PS Safety)				- / 79.387	- / 7.441	- / 7.117	- / 7.626	- / 0.000	- / 7.626
P-3a	7 / Inactive OSIPs (TBD)				- / 104.394	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000
P-40	Total Gross/Weapon System Cost				- / 1,574.864	- / 155.366	- / 199.356	- / 170.357	- / 0.000	- / 170.357

Exhibits Schedule					FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	1 / T-45TS Corrections of Deficiencies (OSIP 008-95) (Safety, Reliability, Increased Service Life, Improved Mission Capabilities)				- / 19.794	- / 19.879	- / 17.961	- / 22.329	- / 100.058	- / 644.918
P-3a	2 / Engine Surge (OSIP 003-03) (PS Safety)				- / 52.043	- / 61.647	- / 63.383	- / 69.463	- / 17.325	- / 625.777
P-3a	3 / Avionics Obsolescence (OSIP 017-04) (PS Safety)				- / 35.437	- / 30.521	- / 29.863	- / 25.336	- / 12.587	- / 686.889
P-3a	4 / Service Life Extension Program (SLEP) (022-14) (Safety, Reliability, Increased Service Life, Improved Mission Capabilities)				- / 43.086	- / 43.487	- / 45.249	- / 42.981	- / 26.795	- / 577.421
P-3a	5 / Required Avionics Sustainment Program (RASP) (006-16) (Safety, Reliability, Increased Service Life, Improved Mission Capabilities)				- / 13.773	- / 21.935	- / 22.523	- / 25.920	- / 9.230	- / 231.578
P-3a	6 / Physiological Episode Mitigation (OSIP 012-19) (PS Safety)				- / 5.845	- / 5.108	- / 7.050	- / 6.564	- / 0.000	- / 126.138
P-3a	7 / Inactive OSIPs (TBD)				- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 104.394
P-40	Total Gross/Weapon System Cost				- / 169.978	- / 182.577	- / 186.029	- / 192.593	- / 165.995	- / 2,997.115

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

Justification:
The FY 2024 funding request is for correction of deficiencies to resolve safety and reliability issues; resolve engine surge critical safety issues; avionics obsolescence, Diminishing Manufacturing Sources and Material Shortages (DMSMS) issues and safety related avionics upgrades; correction of deficiencies discovered in the SLAP; Required Avionics Sustainment Program (RASP)- Phase One (Automatic Dependent Surveillance - Broadcast (ADS-B) Out) and Phase Two (Multi-Function Color Displays (MFCD's) and Midair Collision Avoidance Capability (MCAC)/ADS-B In); and Physiological Episode (PE) mitigation modifications to address aircrew PEs.

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0569 / T-45 Series	Modification Number / Title: 1 / T-45TS Corrections of Deficiencies (OSIP 008-95)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	418.016	12.030	17.116	17.735	0.000	17.735	19.794	19.879	17.961	22.329	100.058	644.918
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	418.016	12.030	17.116	17.735	0.000	17.735	19.794	19.879	17.961	22.329	100.058	644.918
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	418.016	12.030	17.116	17.735	0.000	17.735	19.794	19.879	17.961	22.329	100.058	644.918

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

This Operational, Safety and Improvement Program (OSIP) funds modifications to the T-45 training system to address correction of deficiencies discovered during test and evaluation or operational use to the entire airframe; its components and sub-assemblies, including related Peculiar Support Equipment (SE), all of which vary in complexity and cost of Non-Recurring Engineering, procurement and installation. The correction of deficiencies Engineering Change Proposals (ECPs) include AIRFRAME ECPs (Both STRUCTURAL and SYSTEMS) and ENGINE/POWER AND PROPULSION ECPs.

STRUCTURAL ECPs: The structural portion of this OSIP provides for several structural ECPs to correct safety of flight related issues and deficiencies in meeting airframe original design life of 14,400 Flight Hours. ECPs for Wing

Leading Edge Panels, Wing Centerline Joint, Flap Center Hinge Arm, Canopy Frame, Canopy Frame Longeron, Wing Tip, Gas Turbine Starter Bracket, Horizontal Stabilizers/Tailplane, Frame 24 Crossbeam Lugs and Side Skin, Frame 7 Upper Cross Tie, Wing Leading Edge, Frame 29 Lower Flange, Uplock Beam Forward Attach, Slat Track Rib 5 Downstop Bolt, Rib 2 T-Clip, Frame 28/32 Boundary/Vertical Fin, Frame 33 Structure, Inlet Close-Out Fuel and Tank Ceiling Stiffener, Airframe Engine Mount, Frame 21 Structure, Main Landing Gear (MLG) Bay Tilted & Fasteners, MLG Side Stay Support, Longitudinal Systems Viscous, Frame 20 Lower Longeron/Sidebrace, Frame 12 Vertical Splice, Frame 1 Structures and Ballast provisions, Nose Landing Gear Trunnion Beam, Slat Actuator Fitting Angle, Structure Life Improvement, Speed Brake and Backup Structure, Engine Mount Link Option, Stabilizer Back-Up Structures, Fuselage/Frame 10 Door, and Fin Bracket Lever Box Assembly, Over Center Locking Mechanism, Arrestor Beam Back-up Structure, Wing Lower Aux Spar Doubler, Frame 16 Lateral Link, Frame 17/18 structures and Fuselage Sideskin Fasteners.

SYSTEMS ECPs: Modifications to the airframe, other than structural deficiencies, are also required to ensure safety of flight, aero-performance and maintainability to enable satisfactory Pilot Training Requirements levels. This Airframe OSIP affects several airframe components and their sub-assemblies including: forward, center and aft fuselage components, flight controls, landing gear, Nose Wheel Steering, arresting hook, pivot, tail cone, wing, horizontal and vertical control surfaces (Aileron Rudder), flaps, canopy/windscreen, Aircrew Systems, Ejection system, including lanyard retention collar, ejection control handle, sequencer, barostatic release unit, seat pan, head box and associated components, hydraulic system, and hyd system quick disconnects, oxygen system; to include oxygen monitor, oxygen concentrator and ancillary components (bleed air shutoff valve, heat exchanger, temperature switch, water separator, bleed air piping, plenum and associated indicator systems/annunciators), electrical system, fuel system, throttle, instrumentation systems, environmental control system, communications, navigation, emergency systems, and associated Peculiar Support Equipment (PSE), nosewheel steering test set, hydraulic test stand, cabin pressure test set, Easily Manipulated Mechanical Arm, frame 33 tail plane fitting tool, and landing gear (dummy gear).

ENGINE/POWER AND PROPULSION ECPs: Modifications under this category include modifications to the Engine, Gas Turbine Starter, and Electrical System which will increase the reliability, maintainability and safety of these systems. Engine modifications include Engine Mounts, Fuel Pumps, Combustion Chamber, Compressors, Nozzle Guide Vanes, Drive Systems, Oil System, Air Systems, Turbines, Fuel

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0569 / T-45 Series	Modification Number / Title: 1 / T-45TS Corrections of Deficiencies (OSIP 008-95)
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:
Distribution and Control and modifications to address engine surge/compressor stall. Gas Turbine Starter modifications include starting system, air turbine starter, and air producer. Electrical modifications include generator/distribution/wiring modifications.		
Other Support and Non-Recurring Engineering costs fund Government labor to perform engineering, test, logistics and financial management tasks in order to execute modifications associated with this OSIP.		
DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: FY 2024 and out provides funds for STRUCTURAL ECPs, SYSTEMS ECPs and ENGINE/PROPULSION & POWER ECPs.		

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
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ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Models of Systems Affected: T-45TS	Modification Type: Safety, Reliability, Increased Service Life, Improved Mission Capabilities	Related RDT&E PEs: 0702207N
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Financial Plan <small>(*) Indicates the modification is being installed organically and no installation funds are required.</small>	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Procurement												
1.1.1) Airframe Structural - NonOrganic Installation 1 of 2	823 / 16.113	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	823 / 16.113
1.1.4) Canopy Longeron - NonOrganic Installation 1 of 2	17 / 0.476	- / -	24 / 1.080	32 / 1.466	- / -	32 / 1.466	65 / 3.032	31 / 1.472	24 / 1.061	- / -	- / -	193 / 8.587
1.1.2) Sub 14.4K FLE Deficiencies - NonOrganic Installation 2 of 2	65 / 5.869	4 / 0.029	30 / 1.303	24 / 1.061	- / -	24 / 1.061	20 / 0.900	20 / 0.900	20 / 0.920	10 / 0.460	- / -	193 / 11.442
1.1.3) Tailplane Indicator - Organic ^(*)	- / -	- / -	36 / 0.586	36 / 0.597	- / -	36 / 0.597	48 / 0.810	49 / 0.842	24 / 0.432	- / -	- / -	193 / 3.267
1.1.5) Anti-Collision Light - Organic ^(*)	120 / 4.864	73 / 2.000	48 / 0.288	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	241 / 7.152
1.1.6) Archived ECPs - Organic ^(*)	2,044 / 125.608	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2,044 / 125.608
1.2.1) NON-RECURRING COSTS - Organic ^{(*) (1)}	- / 152.035	- / -	- / 2.808	- / 3.018	- / -	- / 3.018	- / 2.605	- / 2.622	- / 2.673	- / 5.841	- / -	- / 171.602
2.1.1) Archived B Kits - Organic ^(*)	731 / 14.543	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	731 / 14.543
2.2.1) INSTALL EQUIPMENT N/R - Organic ^(*)	- / 149.489	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 149.489
Subtotal: Procurement	- / 268.997	- / 2.029	- / 6.065	- / 6.142	- / -	- / 6.142	- / 7.347	- / 5.836	- / 5.086	- / 6.301	- / 0.000	- / 307.803
Support												
3.2) Data	- / 0.886	- / -	- / 0.041	- / 0.039	- / -	- / 0.039	- / 0.040	- / 0.041	- / 0.041	- / 0.041	- / 0.157	- / 1.286
3.3) Training Equipment	- / 7.054	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 7.054
3.4) Support Equipment	- / 6.915	- / -	- / 0.058	- / 0.056	- / -	- / 0.056	- / 0.056	- / 0.058	- / 0.059	- / 0.060	- / 0.224	- / 7.486
3.5) ILS	- / 7.630	- / 0.730	- / 1.200	- / 1.054	- / -	- / 1.054	- / 1.073	- / 1.092	- / 1.300	- / 1.500	- / 7.273	- / 22.852
3.6) Other Support ⁽²⁾	- / 115.533	- / 8.470	- / 9.752	- / 8.576	- / -	- / 8.576	- / 8.195	- / 7.819	- / 8.691	- / 10.000	- / 91.180	- / 268.216
Subtotal: Support	- / 138.018	- / 9.200	- / 11.051	- / 9.725	- / -	- / 9.725	- / 9.364	- / 9.010	- / 10.091	- / 11.601	- / 98.834	- / 306.894
Installation												
Installation 1 of 2: GRP: AIRFRAME STRUCTURAL	- / 6.590	- / 0.633	- / -	- / 1.711	- / 0.000	- / 1.711	- / 1.961	- / 4.054	- / 1.968	- / 2.825	- / 0.000	- / 19.742
Installation 2 of 2: GRP: T-45TS CORR OF DEFICIENCIES (OSIP 008-95)	- / 4.411	- / 0.168	- / -	- / 0.157	- / 0.000	- / 0.157	- / 1.122	- / 0.979	- / 0.816	- / 1.602	- / 1.224	- / 10.479
Subtotal: Installation	- / 11.001	- / 0.801	- / -	- / 1.868	- / -	- / 1.868	- / 3.083	- / 5.033	- / 2.784	- / 4.427	- / 1.224	- / 30.221
Total												
Total Cost (Procurement + Support + Installation)	418.016	12.030	17.116	17.735	0.000	17.735	19.794	19.879	17.961	22.329	100.058	644.918

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
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ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Installation 1 of 2: GRP: AIRFRAME STRUCTURAL

Manufacturer Information

Manufacturer Name: Various - Airframe Structural	Manufacturer Location: Various
Administrative Leadtime (in Months): 2	Production Leadtime (in Months): 11

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates		Nov 2022	Nov 2023	Nov 2024	Nov 2025	Nov 2026	Nov 2027
Delivery Dates		Oct 2023	Oct 2024	Oct 2025	Oct 2026	Oct 2027	Nov 2028

Installation Information

Method of Implementation: CONTRACT FIELD MODIFICATION TEAM:: Installation Name: AIRFRAME STRUCTURAL

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	823 / 6.590	17 / 0.633	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	840 / 7.223
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	24 / 1.711	0 / 0.000	24 / 1.711	- / -	- / -	- / -	- / -	0 / 0.000	24 / 1.711
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	32 / 1.961	- / -	- / -	- / -	0 / 0.000	32 / 1.961
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	65 / 4.054	- / -	- / -	0 / 0.000	65 / 4.054
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	31 / 1.968	- / -	0 / 0.000	31 / 1.968
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	24 / 2.825	0 / 0.000	24 / 2.825
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	823 / 6.590	17 / 0.633	- / -	24 / 1.711	0 / 0.000	24 / 1.711	32 / 1.961	65 / 4.054	31 / 1.968	24 / 2.825	0 / 0.000	1,016 / 19.742

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	823	4	4	5	4	-	-	-	-	6	6	6	6	8	8	8	8	17	16	16	16	8	8	8	7	6	6	6	6	-	1,016
Out	823	-	4	4	5	4	-	-	-	-	6	6	6	6	8	8	8	-	16	16	16	-	8	8	7	-	6	6	6	39	1,016

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0569 / T-45 Series	Modification Number / Title: 1 / T-45TS Corrections of Deficiencies (OSIP 008-95)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Installation 2 of 2: GRP: T-45TS CORR OF DEFICIENCIES (OSIP 008-95)

Manufacturer Information

Manufacturer Name: Boeing	Manufacturer Location: St. Louis, MO
Administrative Leadtime (in Months): 2	Production Leadtime (in Months): 24

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates	Nov 2021	Nov 2022	Nov 2023	Nov 2024	Nov 2025	Nov 2026	Nov 2027
Delivery Dates	Nov 2023	Nov 2024	Nov 2025	Nov 2026	Nov 2027	Nov 2028	Nov 2029

Installation Information

Method of Implementation: CONTRACT FIELD MODIFICATION TEAM:: Installation Name: T-45TS CORR OF DEFICIENCIES (OSIP 008-95)

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	41 / 4.411	4 / 0.168	- / -	- / -	- / -	- / -	- / -	- / -	- / -	20 / 0.787	0 / 0.000	65 / 5.366
FY 2022	- / -	- / -	- / -	4 / 0.157	0 / 0.000	4 / 0.157	- / -	- / -	- / -	- / -	0 / 0.000	4 / 0.157
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	30 / 1.122	- / -	- / -	- / -	0 / 0.000	30 / 1.122
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	24 / 0.979	- / -	- / -	0 / 0.000	24 / 0.979
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	20 / 0.816	- / -	0 / 0.000	20 / 0.816
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	20 / 0.815	0 / 0.000	20 / 0.815
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	20 / 0.816	20 / 0.816
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	10 / 0.408	10 / 0.408
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	41 / 4.411	4 / 0.168	- / -	4 / 0.157	0 / 0.000	4 / 0.157	30 / 1.122	24 / 0.979	20 / 0.816	40 / 1.602	30 / 1.224	193 / 10.479

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	41	1	1	1	1	-	-	-	-	1	1	1	1	8	8	7	7	6	6	6	6	5	5	5	5	10	10	10	10	30	193
Out	41	-	1	1	1	-	-	-	-	-	1	1	1	-	8	7	7	-	6	6	6	-	5	5	5	-	10	10	10	61	193

Footnotes:
 (1) 1.2.1 Non-Recurring Costs: For multiple safety, obsolescence and reliability identified Engineering Change Proposals due to aging aircrafts. NRE includes a significantly higher rate of Request for Engineering Instructions (REI) due to on-aircraft condition issues, upon receipt of each aircraft.

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0569 / T-45 Series	Modification Number / Title: 1 / T-45TS Corrections of Deficiencies (OSIP 008-95)
ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:	

⁽²⁾ 3.6) Other Support: Includes engineering and logistics support at Naval Air Warfare Centers PAX River, China Lake, Lakehurst, Orlando and Fleet Readiness Center (FRC) Jacksonville. Additional FRC support in FY24 - FY28 due to delays in Validation and Verification installations and aircraft condition issues.

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0569 / T-45 Series	Modification Number / Title: 2 / Engine Surge (OSIP 003-03)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	227.532	47.423	48.100	38.861	0.000	38.861	52.043	61.647	63.383	69.463	17.325	625.777
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	227.532	47.423	48.100	38.861	0.000	38.861	52.043	61.647	63.383	69.463	17.325	625.777
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	227.532	47.423	48.100	38.861	0.000	38.861	52.043	61.647	63.383	69.463	17.325	625.777

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

This Operational Safety and Improvement Program (OSIP) funds modifications to the T-45 training system to address the safety-of-flight risk known as surge stall. T-45 engine surge is a critical safety concern for a single engine training aircraft with over 900 surge events documented, including over 70 surges requiring engine shutdown and restart emergency action. All elements of the T-45 training system (wings, fuselage, engine, etc.) contribute to the incidences of surge stall. The F405 engine continues to experience surge stall events and the funding is for the recurring and non-recurring activities set forth in this OSIP that are on-going through the Future Years Defense Program (FYDP) and the out-years. Kits include modifications to air vehicle, engine and fuel control system.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: Installation continues in FY 2024 for Inlet modification retrofit kits. Non-Recurring Engineering efforts to modify the F405-RR-401 engine and fuel system continue with kit procurement in FY 2024.

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Exhibit P-3a, Individual Modification: PB 2024 Navy										Date: March 2023			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0569 / T-45 Series					Modification Number / Title: 2 / Engine Surge (OSIP 003-03)			
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: T-45TS				Modification Type: PS Safety				Related RDT&E PEs:					
Financial Plan <small>(*) Indicates the modification is being installed organically and no installation funds are required.</small>	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total	
	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	
Procurement													
1.1.1) AF Inlet Mod Kits - NonOrganic ⁽³⁾ <i>Installation 1 of 3</i>	115 / 72.851	- / -	45 / 29.779	15 / 12.077	- / -	15 / 12.077	10 / 8.000	8 / 6.400	- / -	- / -	- / -	193 / 129.107	
1.1.2) Engine Kits O & I Level - Organic ⁽¹⁾	330 / 0.915	- / -	20 / 0.236	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	350 / 1.151	
1.1.3) Engine Obsolescence Kits O&I - Organic ⁽¹⁾⁽⁴⁾	1 / 4.100	2 / 7.230	- / -	- / -	- / -	- / -	- / -	3 / 12.300	11 / 44.000	12 / 48.000	- / -	29 / 115.630	
1.1.4) Fuel System Kits O&I - Organic ⁽¹⁾	- / -	- / -	2 / 1.000	16 / 8.000	- / -	16 / 8.000	32 / 16.248	39 / 20.115	- / -	- / -	- / -	89 / 45.363	
1.1.5) Airframe Fuel System Kits - NonOrganic <i>Installation 2 of 3</i>	- / -	- / -	2 / 0.250	16 / 2.000	- / -	16 / 2.000	60 / 7.635	60 / 7.772	- / -	- / -	- / -	138 / 17.657	
1.1.6) Engine Stator Vane Modification Kits - Organic ⁽¹⁾	75 / 36.649	25 / 12.167	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	100 / 48.816	
1.1.7) Ignition Coil A Kits - NonOrganic ⁽⁵⁾ <i>Installation 3 of 3</i>	193 / 2.911	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	193 / 2.911	
1.1.8) Archived ECPs - Organic ⁽¹⁾	123 / 1.004	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	123 / 1.004	
1.2.1) Non-Recurring Engineering - Organic ⁽¹⁾⁽⁶⁾	- / 131.632	- / 6.776	- / 3.797	- / 5.542	- / -	- / 5.542	- / 4.035	- / 4.646	- / 4.673	- / 5.936	- / 1.936	- / 68.973	
2.1.1) Install Equipment - Organic ⁽¹⁾	- / 0.606	- / 0.206	- / 0.206	- / 0.209	- / -	- / 0.209	- / 0.213	- / 0.212	- / 0.216	- / 0.218	- / -	- / 2.086	
2.1.2) Archived ECPs - Organic ⁽¹⁾	199 / 0.260	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	199 / 0.260	
2.2.1) INSTALL EQUIPMENT N/R - Organic ⁽¹⁾	- / 13.277	- / 1.018	- / 1.037	- / 1.055	- / -	- / 1.055	- / 1.106	- / 1.093	- / 1.200	- / 1.500	- / -	- / 11.286	
Subtotal: Procurement	- / 154.205	- / 27.397	- / 36.305	- / 28.883	- / -	- / 28.883	- / 37.237	- / 52.538	- / 50.089	- / 55.654	- / 1.936	- / 444.244	
Support													
3.2) Data	- / 0.956	- / 0.242	- / 0.055	- / 0.056	- / -	- / 0.056	- / 0.057	- / 0.058	- / 0.060	- / 0.061	- / 6.936	- / 8.481	
3.3) Training Equipment	- / 0.025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.025	
3.4) Support Equipment ⁽⁷⁾	- / 11.458	- / 0.744	- / 2.222	- / 2.133	- / -	- / 2.133	- / 3.133	- / 0.827	- / 3.000	- / 2.000	- / -	- / 25.517	
3.5) ILS ⁽⁸⁾	- / 27.219	- / 4.129	- / 3.410	- / 3.389	- / -	- / 3.389	- / 3.383	- / 3.382	- / 4.398	- / 4.822	- / -	- / 54.132	
3.6) Other Support ⁽⁹⁾	- / 130.753	- / 9.409	- / 3.560	- / 3.674	- / -	- / 3.674	- / 3.568	- / 4.141	- / 5.332	- / 6.629	- / 8.453	- / 75.519	
Subtotal: Support	- / 70.411	- / 14.524	- / 9.247	- / 9.252	- / -	- / 9.252	- / 10.141	- / 8.408	- / 12.790	- / 13.512	- / 15.389	- / 163.674	
Installation													
Installation 1 of 3: AF Inlet Mod Kits	- / 2.594	- / 4.792	- / 1.826	- / -	- / -	- / -	- / 4.148	- / 0.569	- / 0.372	- / 0.297	- / 0.000	- / 14.598	
Installation 2 of 3: Airframe Fuel System Kits	- / -	- / -	- / -	- / 0.004	- / 0.000	- / 0.004	- / 0.035	- / 0.132	- / 0.132	- / -	- / 0.000	- / 0.303	
Installation 3 of 3: Ignition Coil A Kits	- / 0.322	- / 0.710	- / 0.722	- / 0.722	- / 0.000	- / 0.722	- / 0.482	- / -	- / -	- / -	- / 0.000	- / 2.958	
Subtotal: Installation	- / 2.916	- / 5.502	- / 2.548	- / 0.726	- / -	- / 0.726	- / 4.665	- / 0.701	- / 0.504	- / 0.297	- / 0.000	- / 17.859	
Total													

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy **Date:** March 2023

Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0569 / T-45 Series	Modification Number / Title: 2 / Engine Surge (OSIP 003-03)
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ID Code (A=Service Ready, B=Not Service Ready) : **MDAP/MAIS Code:**

Models of Systems Affected: T-45TS **Modification Type:** PS Safety **Related RDT&E PEs:**

Financial Plan <small>(*) Indicates the modification is being installed organically and no installation funds are required.</small>	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>
Total Cost (Procurement + Support + Installation)	227.532	47.423	48.100	38.861	0.000	38.861	52.043	61.647	63.383	69.463	17.325	625.777

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy **Date:** March 2023

Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0569 / T-45 Series	Modification Number / Title: 2 / Engine Surge (OSIP 003-03)
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ID Code (A=Service Ready, B=Not Service Ready) : **MDAP/MAIS Code:**

Installation 1 of 3: AF Inlet Mod Kits

Manufacturer Information

Manufacturer Name: Boeing - AF Inlet Mod Kits Manufacturer Location: St. Louis, MO

Administrative Leadtime (in Months): 2 Production Leadtime (in Months): 24

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates		Nov 2022	Nov 2023	Nov 2024	Nov 2025		
Delivery Dates		Nov 2024	Nov 2025	Nov 2026	Nov 2027		

Installation Information

Method of Implementation: Contractor Field Mod Team:: Installation Name: AF Inlet Mod Kits

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	43 / 2.594	36 / 4.792	36 / 1.826	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	115 / 9.212
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	45 / 4.148	- / -	- / -	- / -	0 / 0.000	45 / 4.148
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	15 / 0.569	- / -	- / -	0 / 0.000	15 / 0.569
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	10 / 0.372	- / -	0 / 0.000	10 / 0.372
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	8 / 0.297	0 / 0.000	8 / 0.297
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	43 / 2.594	36 / 4.792	36 / 1.826	- / -	- / -	- / -	45 / 4.148	15 / 0.569	10 / 0.372	8 / 0.297	0 / 0.000	193 / 14.598

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	43	9	9	9	9	9	9	9	9	-	-	-	-	11	11	11	12	3	3	4	5	3	3	3	1	2	2	2	2	-	193
Out	43	9	9	9	9	9	9	9	9	-	-	-	-	11	11	11	12	3	3	4	5	3	3	3	1	2	2	2	2	-	193

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy **Date:** March 2023

Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0569 / T-45 Series	Modification Number / Title: 2 / Engine Surge (OSIP 003-03)
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ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Installation 2 of 3: Airframe Fuel System Kits

Manufacturer Information

Manufacturer Name: TBD - Airframe Fuel System Kits	Manufacturer Location: TBD
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Administrative Leadtime (in Months): 4	Production Leadtime (in Months): 9
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Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates		Jan 2023	Jan 2024	Jan 2025	Jan 2026		
Delivery Dates		Oct 2023	Oct 2024	Oct 2025	Oct 2026		

Installation Information

Method of Implementation: Contractor Field Mod Team:: Installation Name: Airframe Fuel System Kits

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	2 / 0.004	0 / 0.000	2 / 0.004	- / -	- / -	- / -	- / -	0 / 0.000	2 / 0.004
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	16 / 0.035	- / -	- / -	- / -	0 / 0.000	16 / 0.035
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	60 / 0.132	- / -	- / -	0 / 0.000	60 / 0.132
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	60 / 0.132	- / -	0 / 0.000	60 / 0.132
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	2 / 0.004	0 / 0.000	2 / 0.004	16 / 0.035	60 / 0.132	60 / 0.132	- / -	0 / 0.000	138 / 0.303

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot				
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4						
In	-	-	-	-	-	-	-	-	-	2	-	-	-	4	4	4	4	15	15	15	15	15	15	15	15	15	15	15	15	-	-	-	-	-	138
Out	-	-	-	-	-	-	-	-	-	2	-	-	-	4	4	4	4	15	15	15	15	15	15	15	15	15	15	15	15	-	-	-	-	-	138

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy **Date:** March 2023

Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0569 / T-45 Series	Modification Number / Title: 2 / Engine Surge (OSIP 003-03)
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ID Code (A=Service Ready, B=Not Service Ready) : **MDAP/MAIS Code:**

Installation 3 of 3: Ignition Coil A Kits

Manufacturer Information

Manufacturer Name: TBD - Ignition Coil Kits	Manufacturer Location: TBD
Administrative Leadtime (in Months): 1	Production Leadtime (in Months): 60

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates							
Delivery Dates							

Installation Information

Method of Implementation: CONTRACT FIELD MODIFICATION TEAM:: Installation Name: Ignition Coil A Kits

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	28 / 0.322	45 / 0.710	45 / 0.722	45 / 0.722	0 / 0.000	45 / 0.722	30 / 0.482	- / -	- / -	- / -	0 / 0.000	193 / 2.958
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	28 / 0.322	45 / 0.710	45 / 0.722	45 / 0.722	0 / 0.000	45 / 0.722	30 / 0.482	- / -	- / -	- / -	0 / 0.000	193 / 2.958

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot				
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4						
In	28	11	11	11	12	11	11	11	12	11	11	11	12	8	8	8	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Out	28	11	11	11	12	11	11	11	12	11	11	11	12	8	8	8	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Footnotes:
⁽³⁾ 1.1.1) AF Inlet Mod Kits: Unit cost increase in FY24 due to OEM delays in engineering and development along with higher commercial inflation rates due to COVID 19. Unit cost increase in FY24 due to an increase in cost of INLET Components.
⁽⁴⁾ 1.1.3) Engine Obsolescence Kits O&I: T-45 Engine Obsolescence consists of a series of ECPs/TDs to replace engine components to mitigate risk of industrial base transitioning production capacity to a different engine design standard.

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0569 / T-45 Series	Modification Number / Title: 2 / Engine Surge (OSIP 003-03)
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:
<p>(5) 2.1.1) Ignition Coil A Kits - Kits were bought in FY16. Moved from Archived ECPS (A-Kits) and updated to Non-Organic to add an installation schedule. Installs started in FY21.</p> <p>(6) 1.2.1) Non-Recurring Engineering: FY2024 - FY2028 non-recurring engineering funding to address Engine Module (Modules 5-9) obsolescence. FY24 increase due to aircraft condition.</p> <p>(7) 3.4) Support Equipment: Increase in FY 2024 because inlet modification will necessitate a configuration change on Support Equipment to continue to support the retrofit line through the life of the installations.</p> <p>(8) 3.5) ILS: Increase in funding due to on aircraft condition during Inlet installs.</p> <p>(9) 3.6) Other Support: Additional FRC support in FY26 due to delays in Inlet installations and on aircraft condition during installs.</p>		

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0569 / T-45 Series	Modification Number / Title: 3 / Avionics Obsolescence (OSIP 017-04)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	373.662	41.592	73.039	64.852	0.000	64.852	35.437	30.521	29.863	25.336	12.587	686.889
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	373.662	41.592	73.039	64.852	0.000	64.852	35.437	30.521	29.863	25.336	12.587	686.889
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	373.662	41.592	73.039	64.852	0.000	64.852	35.437	30.521	29.863	25.336	12.587	686.889

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

This Operational Safety Improvement Program (OSIP) funds modifications to the T-45 training system to address Avionics obsolescence, performance, and Diminishing Manufacturing Sources and Material Shortages (DMSMS) issues.

This OSIP includes efforts that address avionics (and associated software) and supporting sub-system modifications and/or upgrades to address safety, reliability, maintainability, obsolescence and Diminishing Manufacturing Source (DMSMS) requirements. Modifications may also be driven by new cyber security requirements. Efforts also fund changes to training and support equipment to maintain aircraft concurrency and supportability. As well as continuing avionics obsolescence and DMSMS issues and implements safety related avionics upgrades to include hardware obsolescence on multiple Circuit Card Assemblies (CCA) within the Digital Data Set (DDS) Data Acquisition Units (DAU). to continue fleet operations through 2035. The DDS provides the Controlled Flight into Terrain/Terrain Awareness Warning System and Crash Survivable Recorder capabilities.

Current Engineering Change Proposals (ECPs) include: Mission Data Processer (MDP), Pilot Display Unit (PDU)/Heads-Up Display (HUD) and the HUD camera, Tactical Air Navigation (TACAN), the ARC-182 radio, Avionics Corrections of Deficiencies, Almanac Loading System, communication systems, navigation systems and the subsystem which includes Virtual Mission Training System (VMTS).

AVIONICS/GROUND BASED TRAINING SYSTEMS: Modifications to the Avionics will be required to update the MDP, PDU/Heads-Up Display (HUD) and the HUD camera, Tactical Air Navigation (TACAN), the ARC-182 radio and those avionic components associated with the affected aircraft systems.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: Continue incorporation of Engineering Change Proposals in FY 2024.

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Exhibit P-3a, Individual Modification: PB 2024 Navy										Date: March 2023			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0569 / T-45 Series					Modification Number / Title: 3 / Avionics Obsolescence (OSIP 017-04)			
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: T-45TS				Modification Type: PS Safety				Related RDT&E PEs:					
Financial Plan <small>(*) Indicates the modification is being installed organically and no installation funds are required.</small>	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
1.1.1) HUD Cameras - NonOrganic <i>Installation 1 of 6</i>	193 / 0.196	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	193 / 0.196	
1.1.2) ARC - 182 Radio Obsolescence - NonOrganic ⁽¹⁰⁾ <i>Installation 2 of 6</i>	36 / 0.339	40 / 0.767	69 / 0.674	48 / 0.477	- / -	48 / 0.477	- / -	- / -	- / -	- / -	- / -	193 / 2.257	
1.1.3) TACAN Obsolescence - NonOrganic ⁽¹¹⁾ <i>Installation 3 of 6</i>	36 / 0.725	40 / 1.639	69 / 1.442	48 / 1.021	- / -	48 / 1.021	- / -	- / -	- / -	- / -	- / -	193 / 4.827	
1.1.4) HUD/PDU Obsolescence - NonOrganic ⁽¹²⁾ <i>Installation 4 of 6</i>	3 / 0.031	40 / 0.765	68 / 0.626	60 / 0.562	- / -	60 / 0.562	40 / 0.382	- / -	- / -	- / -	- / -	211 / 2.366	
1.1.5) YDC Obsolescence - NonOrganic <i>Installation 5 of 6</i>	- / -	- / -	- / -	- / -	- / -	- / -	5 / 0.050	28 / 0.280	56 / 0.560	56 / 0.560	48 / 0.480	193 / 1.930	
1.1.6) RADALT Obsolescence - NonOrganic <i>Installation 6 of 6</i>	- / -	- / -	- / -	- / -	- / -	- / -	5 / 0.050	28 / 0.280	56 / 0.560	56 / 0.560	48 / 0.480	193 / 1.930	
1.1.7) Archive - Organic ^(*)	- / 105.680	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 105.680	
1.2.1) NR Engineering - Organic ^(*)	- / 16.636	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 16.636	
2.1.1) HUD Cameras - Organic ^(*)	193 / 1.984	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	193 / 1.984	
2.1.2) Subsystems ECPs - Organic ^{(*) (13)}	156 / 4.749	19 / 2.443	46 / 2.835	46 / 2.835	- / -	46 / 2.835	37 / 2.498	37 / 2.548	37 / 2.599	37 / 2.599	- / -	415 / 23.106	
2.1.3) DMSMS ECPs - Organic ^{(*) (14)}	68 / 0.932	- / -	68 / 0.970	50 / 0.726	- / -	50 / 0.726	50 / 0.739	50 / 0.754	50 / 0.769	50 / 0.769	- / -	386 / 5.659	
2.1.4) ARC-182 Radio Obsolescence - Organic ^{(*) (15)}	36 / 13.679	40 / 8.249	69 / 27.600	48 / 18.720	- / -	48 / 18.720	- / -	- / -	- / -	- / -	- / -	193 / 68.248	
2.1.5) TACAN Obsolescence - Organic ^{(*) (16)}	37 / 6.298	40 / 4.013	69 / 12.213	47 / 7.050	- / -	47 / 7.050	- / -	- / -	- / -	- / -	- / -	193 / 29.574	
2.1.6) HUD PDU - Organic ^{(*) (17)}	3 / 1.500	40 / 10.501	68 / 17.255	60 / 15.545	- / -	60 / 15.545	40 / 10.550	- / -	- / -	- / -	- / -	211 / 55.351	
2.1.7) DDS (DAU) Obsolescence - Organic ^(*)	- / -	- / -	- / -	3 / 0.300	- / -	3 / 0.300	50 / 5.090	65 / 6.736	75 / 7.912	- / -	- / -	193 / 20.038	
2.1.8) YDC Obsolescence - Organic ^(*)	- / -	- / -	- / -	- / -	- / -	- / -	5 / 0.500	28 / 2.800	56 / 0.560	56 / 0.560	48 / 0.480	193 / 4.900	
2.1.9) RADALT Obsolescence - Organic ^(*)	- / -	- / -	- / -	- / -	- / -	- / -	5 / 0.375	28 / 2.100	56 / 0.560	56 / 0.560	48 / 0.480	193 / 4.075	
2.1.10) Archived B Kits - Organic ^(*)	1,246 / 93.341	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1,246 / 93.341	
2.2.1) Subsystem ECPs - Organic ^{(*) (18)}	- / 0.830	- / -	- / 0.594	- / 15.279	- / -	- / 15.279	- / 14.157	- / 6.817	- / 17.147	- / 9.000	- / -	- / 33.824	
2.2.2) DMSMS ECPs - Organic ^{(*) (19)}	- / 4.773	- / 0.332	- / 1.936	- / 12.064	- / -	- / 12.064	- / 2.023	- / 0.593	- / 0.550	- / 0.700	- / 5.255	- / 18.226	
2.2.3) DDS (DAU) Obsolescence - Organic ^(*)	- / 1.654	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.654	
Subtotal: Procurement	- / 253.347	- / 28.709	- / 66.145	- / 54.579	- / -	- / 54.579	- / 26.414	- / 22.908	- / 21.217	- / 15.308	- / 7.175	- / 495.802	
Support													
3.3) Training Equipment	6 / 30.355	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	6 / 30.355	
3.4) Support Equipment N/R	- / 5.840	- / 0.248	- / 0.074	- / 0.074	- / -	- / 0.074	- / 0.074	- / 0.074	- / 0.074	- / 0.080	- / 0.028	- / 6.566	

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy **Date:** March 2023

Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1 **P-1 Line Item Number / Title:** 0569 / T-45 Series **Modification Number / Title:** 3 / Avionics Obsolescence (OSIP 017-04)

ID Code (A=Service Ready, B=Not Service Ready) : **MDAP/MAIS Code:**

Models of Systems Affected: T-45TS **Modification Type:** PS Safety **Related RDT&E PEs:**

Financial Plan <small>(*) Indicates the modification is being installed organically and no installation funds are required.</small>	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>
3.5) ILS	- / 32.209	- / 1.012	- / 1.119	- / 1.117	- / -	- / 1.117	- / 1.158	- / 1.678	- / 1.961	- / 3.000	- / -	- / 43.254
3.6) Other Support ⁽²⁰⁾	- / 51.502	- / 11.440	- / 3.520	- / 5.828	- / -	- / 5.828	- / 3.952	- / 3.746	- / 4.941	- / 5.000	- / 1.766	- / 91.695
Subtotal: Support	- / 119.906	- / 12.700	- / 4.713	- / 7.019	- / -	- / 7.019	- / 5.184	- / 5.498	- / 6.976	- / 8.080	- / 1.794	- / 171.870
Installation												
Installation 1 of 6: HUD Cameras	- / 0.409	- / 0.183	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 0.592
Installation 2 of 6: ARC - 182 Radio Obsolescence	- / -	- / -	- / 0.705	- / 1.214	- / 0.000	- / 1.214	- / 0.845	- / 0.052	- / 0.571	- / -	- / 0.000	- / 3.387
Installation 3 of 6: TACAN Obsolescence	- / -	- / -	- / 1.008	- / 1.244	- / 0.000	- / 1.244	- / 2.184	- / 1.519	- / 0.090	- / -	- / 0.000	- / 6.045
Installation 4 of 6: HUD/PDU Obsolescence	- / -	- / -	- / 0.468	- / 0.796	- / 0.000	- / 0.796	- / 0.810	- / 0.370	- / 0.035	- / -	- / 0.000	- / 2.479
Installation 5 of 6: YDC Obsolescence	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.087	- / 0.487	- / 0.974	- / 1.809	- / 3.357
Installation 6 of 6: RADALT Obsolescence	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.087	- / 0.487	- / 0.974	- / 1.809	- / 3.357
Subtotal: Installation	- / 0.409	- / 0.183	- / 2.181	- / 3.254	- / -	- / 3.254	- / 3.839	- / 2.115	- / 1.670	- / 1.948	- / 3.618	- / 19.217
Total												
Total Cost (Procurement + Support + Installation)	373.662	41.592	73.039	64.852	0.000	64.852	35.437	30.521	29.863	25.336	12.587	686.889

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy **Date:** March 2023

Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0569 / T-45 Series	Modification Number / Title: 3 / Avionics Obsolescence (OSIP 017-04)
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ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Installation 1 of 6: HUD Cameras

Manufacturer Information

Manufacturer Name: NAWCAD Wolf	Manufacturer Location: St. Inigoes, MD
Administrative Leadtime (in Months): 10	Production Leadtime (in Months): 8

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates							
Delivery Dates							

Installation Information

Method of Implementation: Contractor Field Mod Team:: Installation Name: HUD Cameras

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	134 / 0.409	59 / 0.183	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	193 / 0.592
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	134 / 0.409	59 / 0.183	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	193 / 0.592

Installation Schedule

PYS	FY 2022	FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot				
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4						
In	134	-	-	29	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	193
Out	134	-	-	29	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	193

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy **Date:** March 2023

Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0569 / T-45 Series	Modification Number / Title: 3 / Avionics Obsolescence (OSIP 017-04)
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ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Installation 2 of 6: ARC - 182 Radio Obsolescence

Manufacturer Information

Manufacturer Name: ROCKWELL COLLINS, INC	Manufacturer Location: CEDAR RAPIDS, IA
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Administrative Leadtime (in Months): 4	Production Leadtime (in Months): 9
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Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates	Jan 2022	Jan 2023	Jan 2024				
Delivery Dates	Oct 2022	Oct 2023	Oct 2024				

Installation Information

Method of Implementation: Drive-In:: Installation Name: ARC - 182 Radio Obsolescence

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3 / 0.052	33 / 0.571	- / -	0 / 0.000	36 / 0.623
FY 2022	- / -	- / -	40 / 0.705	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	40 / 0.705
FY 2023	- / -	- / -	- / -	69 / 1.214	0 / 0.000	69 / 1.214	- / -	- / -	- / -	- / -	0 / 0.000	69 / 1.214
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	48 / 0.845	- / -	- / -	- / -	0 / 0.000	48 / 0.845
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	40 / 0.705	69 / 1.214	0 / 0.000	69 / 1.214	48 / 0.845	3 / 0.052	33 / 0.571	- / -	0 / 0.000	193 / 3.387

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	10	11	10	9	18	18	17	16	12	12	12	12	1	1	1	-	8	8	9	8	-	-	-	-	-	193
Out	-	-	-	-	-	10	11	10	9	18	18	17	16	12	12	12	12	1	1	1	-	8	8	9	8	-	-	-	-	-	193

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0569 / T-45 Series	Modification Number / Title: 3 / Avionics Obsolescence (OSIP 017-04)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Installation 3 of 6: TACAN Obsolescence

Manufacturer Information

Manufacturer Name: TBD	Manufacturer Location: TBD
Administrative Leadtime (in Months): 4	Production Leadtime (in Months): 21

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates	Jan 2022	Jan 2023	Jan 2024				
Delivery Dates	Oct 2023	Oct 2024	Oct 2025				

Installation Information

Method of Implementation: Drive-In:: Installation Name: TACAN Obsolescence

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	33 / 1.008	- / -	- / -	- / -	- / -	- / -	3 / 0.090	- / -	0 / 0.000	36 / 1.098
FY 2022	- / -	- / -	- / -	40 / 1.244	0 / 0.000	40 / 1.244	- / -	- / -	- / -	- / -	0 / 0.000	40 / 1.244
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	69 / 2.184	- / -	- / -	- / -	0 / 0.000	69 / 2.184
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	48 / 1.519	- / -	- / -	0 / 0.000	48 / 1.519
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	33 / 1.008	40 / 1.244	0 / 0.000	40 / 1.244	69 / 2.184	48 / 1.519	3 / 0.090	- / -	0 / 0.000	193 / 6.045

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	8	8	9	8	10	10	10	10	18	18	17	16	12	12	12	12	-	1	1	1	-	-	-	-	-	193
Out	-	-	-	-	-	8	8	9	8	10	10	10	10	18	18	17	16	12	12	12	12	-	1	1	1	-	-	-	-	-	193

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy **Date:** March 2023

Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1 **P-1 Line Item Number / Title:** 0569 / T-45 Series **Modification Number / Title:** 3 / Avionics Obsolescence (OSIP 017-04)

ID Code (A=Service Ready, B=Not Service Ready) : **MDAP/MAIS Code:**

Installation 4 of 6: HUD/PDU Obsolescence

Manufacturer Information

Manufacturer Name: TBD ⁽²¹⁾ Manufacturer Location: TBD
 Administrative Leadtime (in Months): 2 Production Leadtime (in Months): 11

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates	Nov 2021	Nov 2022	Nov 2023	Nov 2024			
Delivery Dates	Oct 2022	Oct 2023	Oct 2024	Oct 2025			

Installation Information

Method of Implementation: Drive in:: Installation Name: HUD/PDU Obsolescence

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3 / 0.035	- / -	0 / 0.000	3 / 0.035
FY 2022	- / -	- / -	40 / 0.468	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	40 / 0.468
FY 2023	- / -	- / -	- / -	68 / 0.796	0 / 0.000	68 / 0.796	- / -	- / -	- / -	- / -	0 / 0.000	68 / 0.796
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	60 / 0.810	- / -	- / -	- / -	0 / 0.000	60 / 0.810
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	40 / 0.370	- / -	- / -	0 / 0.000	40 / 0.370
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	40 / 0.468	68 / 0.796	0 / 0.000	68 / 0.796	60 / 0.810	40 / 0.370	3 / 0.035	- / -	0 / 0.000	211 / 2.479

Installation Schedule

PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	13	13	14	-	22	22	24	-	20	20	20	-	13	13	14	-	1	2	-	-	-	-	-	-	-	211
Out	-	-	-	-	13	13	14	-	22	22	24	-	20	20	20	-	13	13	14	-	1	2	-	-	-	-	-	-	-	211

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy **Date:** March 2023

Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0569 / T-45 Series	Modification Number / Title: 3 / Avionics Obsolescence (OSIP 017-04)
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ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Installation 5 of 6: YDC Obsolescence

Manufacturer Information

Manufacturer Name: BAE Systems	Manufacturer Location: Rochester UK
Administrative Leadtime (in Months): 2	Production Leadtime (in Months): 12

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates				Nov 2024	Nov 2025	Nov 2026	Nov 2027
Delivery Dates				Nov 2025	Nov 2026	Nov 2027	Nov 2028

Installation Information

Method of Implementation: [none specified]:: Installation Name: YDC Obsolescence

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	5 / 0.087	- / -	- / -	0 / 0.000	5 / 0.087
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	28 / 0.487	- / -	0 / 0.000	28 / 0.487
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	56 / 0.974	0 / 0.000	56 / 0.974
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	56 / 0.974	56 / 0.974
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	48 / 0.835	48 / 0.835
Total	- / -	- / -	- / -	- / -	- / -	- / -	- / -	5 / 0.087	28 / 0.487	56 / 0.974	104 / 1.809	193 / 3.357

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	1	1	1	7	7	7	7	14	14	14	14	104	193
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	1	7	7	7	7	14	14	14	14	106	193

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0569 / T-45 Series	Modification Number / Title: 3 / Avionics Obsolescence (OSIP 017-04)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Installation 6 of 6: RADALT Obsolescence

Manufacturer Information

Manufacturer Name: TBD	Manufacturer Location: TBD
Administrative Leadtime (in Months): 2	Production Leadtime (in Months): 12

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates				Nov 2024	Nov 2025	Nov 2026	Nov 2027
Delivery Dates				Nov 2025	Nov 2026	Nov 2027	Nov 2028

Installation Information

Method of Implementation: [none specified]:: Installation Name: RADALT Obsolescence

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	5 / 0.087	- / -	- / -	0 / 0.000	5 / 0.087
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	28 / 0.487	- / -	0 / 0.000	28 / 0.487
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	56 / 0.974	0 / 0.000	56 / 0.974
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	56 / 0.974	56 / 0.974
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	48 / 0.835	48 / 0.835
Total	- / -	- / -	- / -	- / -	- / -	- / -	- / -	5 / 0.087	28 / 0.487	56 / 0.974	104 / 1.809	193 / 3.357

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	1	1	1	7	7	7	7	14	14	14	14	104	193
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	1	-	7	7	7	14	14	14	14	113	193

Footnotes:
⁽¹⁰⁾ 1.1.3) ARC - 182 Obsolescence: Aligned with TACAN obsolescence to gain NRE and install efficiencies and to accelerated kit buy to deliver capability to the fleet to address increasing ARC-182 Radio Obsolescence. Installs shifted to the right due to due to delays in contract awards and delays in NRE for Kit Development.
⁽¹¹⁾ 1.1.4) TACAN Obsolescence: Aligned with ARC-182 obsolescence to gain NRE and install efficiencies. Accelerated kit buy to deliver capability to the fleet to address increasing TACAN Obsolescence. Installs shifted to the right due to delays in NRE for Kit Development.

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0569 / T-45 Series	Modification Number / Title: 3 / Avionics Obsolescence (OSIP 017-04)
ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:	
<p>(12) 1.1.5) HUD/PDU Obsolescence: Procurement is to address several obsolescence issues impacting fleet readiness. Procurement quantity includes 193 aircraft units and 18 Ground Based Training System (GBTS) units. Installs shifted to the right due to delays in NRE.</p> <p>(13) 2.1.2) Subsystems ECPs: Ongoing ECPs that include ECPs on various Weapon Replaceable Assemblies (WRAs) and fluctuate as to their applicability.</p> <p>(14) 2.1.3) DMSMS ECPs cost element encompasses multiple ECPs. Ongoing ECPs that include ECPs on various Weapon Replaceable Assemblies (WRAs) and fluctuate as to their applicability.</p> <p>(15) 2.1.4) ARC - 182 Radio Obsolescence: Accelerated kit buy to deliver capability to the fleet to address increasing ARC-182 Radio Obsolescence. Aligned with TACAN obsolescence to gain NRE and install efficiencies.</p> <p>(16) 2.1.5) TACAN Obsolescence: Accelerated kit buy to deliver capability to the fleet to address increasing TACAN Obsolescence. Procurement funding broken out from Subsystems ECP as it was identified as top degrader. Aligned with ARC-182 obsolescence to gain NRE and install efficiencies.</p> <p>(17) 2.1.6) HUD PDU: Procurement is to address several obsolescence issues impacting fleet readiness. Procurement quantity includes 193 aircraft units and 18 Ground Based Training System (GBTS) units.</p> <p>(18) 2.2.1) Subsystem ECPs: Non-recurring cost element encompasses multiple ECPs. Increase in FY24 - FY27 to add VMTS Software NRE to comply with cyber-security updates and DDS Software Correction of Deficiencies II NRE.</p> <p>(19) 2.2.2) DMSMS ECPs non-recurring cost element encompasses multiple ECPs. FY24 increase for Virtual Mission Training System (VMTS) obsolescence.</p> <p>(20) 3.6) Other Support: Additional FRC support in FY24 due to three major installs to include TACAN/UHF radio (ARC-182), HUD and MCA.</p> <p>(21) 1.1.5) HUD/PDU Obsolescence: Install schedule includes 193 aircraft units and 18 Ground Based Training System (GBTS) units.</p>		

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0569 / T-45 Series	Modification Number / Title: 4 / Service Life Extension Program (SLEP) (022-14)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	268.352	38.036	40.682	28.753	0.000	28.753	43.086	43.487	45.249	42.981	26.795	577.421
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	268.352	38.036	40.682	28.753	0.000	28.753	43.086	43.487	45.249	42.981	26.795	577.421
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	268.352	38.036	40.682	28.753	0.000	28.753	43.086	43.487	45.249	42.981	26.795	577.421

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

This Operational Safety and Improvement Program (OSIP) funds modifications to the T-45 training system to address correction of deficiencies discovered in Service Life Assessment Program (SLAP), which identified risk areas that must be addressed in order to extend aircraft service life. Structural SLAP was completed during 1ST quarter 2012. Service Life Extension Program (SLEP): During Full Scale Development testing of the T45 aircraft it was determined that incorporation of redesigned components applicable to the critical load paths will significantly increase the service life of the aircraft. Correcting these areas is required to achieve the safe design life associated with the program of record. Non-Recurring Engineering for SLEP modifications determined changes required to improve structural details to increase aircraft service life to 21,600 flight hours at 150% Fatigue Life Expended (FLE). These SLEP modifications will enable Chief of Naval Air Training (CNATRA) pilot training requirements to be safely met until 2035. The other support in FY 2024 and beyond is to fund Government labor to perform engineering, test, logistics and financial management tasks, and to execute SLEP modifications associated with this OSIP. This support will be executed in accordance with the Financial Management Regulation and Naval Air Systems Command Policy.

Development Status/Major Milestones: Retrofit kit procurements and installations for SLEP modifications continue through FY28. The ILS is to fund the Original Equipment Manufacturer technical support of SLEP installations and onsite engineering support to adjudicate any anomalies found during SLEP retrofit in order to prevent incorporation stoppages on aircraft undergoing SLEP modifications.

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0569 / T-45 Series	Modification Number / Title: 4 / Service Life Extension Program (SLEP) (022-14)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Models of Systems Affected: T-45TS	Modification Type: Safety, Reliability, Increased Service Life, Improved Mission Capabilities	Related RDT&E PEs: 0702207N
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Financial Plan <small>(* Indicates the modification is being installed organically and no installation funds are required.)</small>	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Procurement												
1.1.1) Structural SLEP - NonOrganic Installation 1 of 1	89 / 35.692	- / -	24 / 5.488	24 / 5.587	- / -	24 / 5.587	24 / 5.687	18 / 4.410	8 / 1.896	6 / 1.470	- / -	193 / 60.230
1.1.2) SLEP Wings - NonOrganic Installation 1 of 1	9 / 70.156	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	9 / 70.156
1.1.3) Subsystem SLEP - NonOrganic Installation 1 of 1	- / -	- / -	- / -	24 / 5.009	- / -	24 / 5.009	48 / 6.432	48 / 6.548	49 / 6.684	24 / 5.089	- / -	193 / 29.762
1.1.4) Archived ECPs - Organic ⁽¹⁾	12 / 6.300	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	12 / 6.300
1.2.1) Structural SLEP NRE - Organic ⁽¹⁾	- / 28.353	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 28.353
1.2.2) SLEP Wings NRE - Organic ⁽¹⁾	- / 14.242	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 14.242
1.2.3) Subsystem SLEP NRE - Organic ^{(1) (22)}	- / 1.100	- / 5.986	- / 4.600	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 11.686
Subtotal: Procurement	- / 155.843	- / 5.986	- / 10.088	- / 10.596	- / -	- / 10.596	- / 12.119	- / 10.958	- / 8.580	- / 6.559	- / 0.000	- / 220.729
Support												
2.2) Data	- / 0.324	- / 0.334	- / 0.526	- / 0.383	- / -	- / 0.383	- / 0.390	- / 0.397	- / 0.400	- / 0.500	- / -	- / 3.254
2.4) Support Equipment	- / 20.786	- / 3.675	- / 2.263	- / 1.743	- / -	- / 1.743	- / 1.774	- / 1.774	- / 1.900	- / 3.000	- / -	- / 36.915
2.5) ILS ⁽²³⁾	- / 136.056	- / 1.584	- / 9.213	- / 9.115	- / -	- / 9.115	- / 8.888	- / 8.730	- / 12.744	- / 16.090	- / 3.303	- / 105.723
2.6) Other Support ⁽²⁴⁾	- / 125.470	- / 20.075	- / 6.214	- / 6.916	- / -	- / 6.916	- / 6.338	- / 6.522	- / 6.473	- / 9.832	- / 11.367	- / 99.207
Subtotal: Support	- / 82.636	- / 25.668	- / 18.216	- / 18.157	- / -	- / 18.157	- / 17.390	- / 17.423	- / 21.517	- / 29.422	- / 14.670	- / 245.099
Installation												
Installation 1 of 1: GRP: SLEP Installs	- / 29.873	- / 6.382	- / 12.378	- / -	- / -	- / -	- / 13.577	- / 15.106	- / 15.152	- / 7.000	- / 12.125	- / 111.593
Subtotal: Installation	- / 29.873	- / 6.382	- / 12.378	- / -	- / -	- / -	- / 13.577	- / 15.106	- / 15.152	- / 7.000	- / 12.125	- / 111.593
Total												
Total Cost (Procurement + Support + Installation)	268.352	38.036	40.682	28.753	0.000	28.753	43.086	43.487	45.249	42.981	26.795	577.421

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0569 / T-45 Series	Modification Number / Title: 4 / Service Life Extension Program (SLEP) (022-14)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Installation 1 of 1: GRP: SLEP Installs

Manufacturer Information

Manufacturer Name: Boeing - Structural SLEP, SLEP Wing and Subsystem SLEP ⁽²⁵⁾	Manufacturer Location: St. Louis
Administrative Leadtime (in Months): 2	Production Leadtime (in Months): 10

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates	Nov 2021		Nov 2023	Nov 2024	Nov 2025		
Delivery Dates	Sep 2022		Sep 2024	Sep 2025	Sep 2026		

Installation Information

Method of Implementation: Contractor Field Mod Team:: Installation Name: SLEP Installs

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	50 / 29.873	26 / 6.382	22 / 9.914	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	98 / 46.169
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	4 / 2.464	- / -	- / -	- / -	20 / 9.763	- / -	- / -	- / -	0 / 0.000	24 / 12.227
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	28 / 3.814	20 / 10.447	- / -	- / -	0 / 0.000	48 / 14.261
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	52 / 4.659	20 / 10.447	- / -	0 / 1.063	72 / 16.169
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	52 / 4.705	14 / 7.000	0 / 0.000	66 / 11.705
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	57 / 6.718	57 / 6.718
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	30 / 4.344	30 / 4.344
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	50 / 29.873	26 / 6.382	26 / 12.378	- / -	- / -	- / -	48 / 13.577	72 / 15.106	72 / 15.152	14 / 7.000	87 / 12.125	395 / 111.593

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	50	6	6	7	7	6	6	7	7	-	-	-	-	12	12	12	12	18	18	18	18	18	18	18	18	3	3	3	5	87	395
Out	44	6	6	7	7	6	6	7	7	2	-	-	-	4	12	12	12	4	18	18	18	4	18	18	22	3	3	3	5	123	395

Footnotes:
⁽²²⁾ 1.2.3) Subsystem SLEP NRE - For multiple safety, obsolescence and reliability identified Engineering Change Proposals due to aging aircrafts.
⁽²³⁾ 2.5) ILS: Supports SLEP full rate retrofit and estimated number of engineering variations that will require OEM reachback and onsite engineering support.

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0569 / T-45 Series	Modification Number / Title: 4 / Service Life Extension Program (SLEP) (022-14)
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:
<p>⁽²⁴⁾ 2.6) Other Support: Additional FRC support in FY24 due to on aircraft condition issues.</p> <p>⁽²⁵⁾ Reflects 41 prior year procurement installations for Structural SLEP and 9 prior year procurement installations for SLEP Wings.</p>		

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0569 / T-45 Series	Modification Number / Title: 5 / Required Avionics Sustainment Program (RASP) (006-16)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	103.521	8.844	13.302	12.530	0.000	12.530	13.773	21.935	22.523	25.920	9.230	231.578
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	103.521	8.844	13.302	12.530	0.000	12.530	13.773	21.935	22.523	25.920	9.230	231.578
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	103.521	8.844	13.302	12.530	0.000	12.530	13.773	21.935	22.523	25.920	9.230	231.578

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

This Operational Safety and Improvement Program (OSIP) funds modifications to the T-45 training system (T-45TS) in support of the Required Avionics Sustainment Program (RASP), which includes Automatic Dependent Surveillance-Broadcast (ADS-B Out) as Phase I of this effort.

The Federal Aviation Administration (FAA) has developed a plan to modernize the National Airspace System (NAS) in order to address the impact of air traffic growth in the United States. The FAA has mandated compliance with this plan by January 1, 2025. This plan, part of the FAA's Next Generation Air Transportation System (NextGen) Airspace, is intended to increase the air traffic capacity while at the same time improving safety and efficiency. In part, NextGen implements a process called Performance Based Navigation (PBN). In accordance with the concepts of PBN, an aircraft's navigation performance capability will be a determining factor as to whether or not it can fly within specific airspace, certain air traffic routes or instrument procedures. Also, NextGen transforms the NAS from a radar based system, with aircraft interrogation, to a satellite based system utilizing Automatic Dependent Surveillance-Broadcast (ADS-B) communication in order to transmit the aircraft's own position. In order for the T-45 to continue to have unrestricted access to the NAS through the year 2035, the T-45TS must be modified to avoid impacts to Chief of Naval Air Training (CNATRA) Strike Pilot and Naval Flight Officer (NFO) training.

Required Avionics Sustainment Program (RASP) Phase I ADS-B Out: The first Phase of RASP will modify the T-45 with ADS-B Out capability, in compliance with FAA NAS mandate stipulated in DoT/FAA, 14 CFR Part 91: ADS-B Out Performance Requirements to Support Air Traffic Control (ATC) Service Final Rule, May 28, 2010. This modification consists of the minimum required capability increase necessary to enable ADS-B Out, equipping 193 T-45 aircraft and 18 simulators to meet FAA NAS mandates. The ADS-B Out capability requires the modification of the existing antennas and the Mission Display Processor (MDP) Operational Flight Program (OFP) software as well as changes to the simulator and any associated support equipment. It also requires integration with the replacement to the Transponder (with associated data bus connectivity and control), changes to the pilot interface and the replacement Air Data Computer.

Phase II of the Required Avionics Sustainment Program (RASP) includes addressing obsolescence in the Multi-Function Color Displays (MFCD's) and incorporating Midair Collision Avoidance Capability (MCAC), which increases air traffic situational awareness, thereby reducing the potential for midair collisions. Automatic Dependent Surveillance Broadcast-In (ADS-B (In)) capability is an assumed enabler for MCAC.

Additionally, the T-45 Navigation source Global Positioning System Inertial Navigation Assembly (GINA) will be updated to address obsolescence. Replacement is necessary to ensure compliance with FAA NextGen requirements.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: FY 2024 continues aircraft modification on the T-45TS for ADS-B Out and NextGen compliance and provides funding for integration and systems engineering in support of FAA certification.

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Exhibit P-3a, Individual Modification: PB 2024 Navy										Date: March 2023			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0569 / T-45 Series					Modification Number / Title: 5 / Required Avionics Sustainment Program (RASP) (006-16)			
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: T45TS				Modification Type: Safety, Reliability, Increased Service Life, Improved Mission Capabilities				Related RDT&E PEs: 0603208N					
Financial Plan <small>(*) Indicates the modification is being installed organically and no installation funds are required.</small>	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total	
	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	
Procurement													
1.1.1) ADS-B Mod Kits - NonOrganic ⁽²⁶⁾ <i>Installation 1 of 1</i>	193 / 2.858	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	193 / 2.858	
1.1.2) GBTS - Organic ⁽¹⁾	12 / 0.271	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	12 / 0.271	
1.1.3) CWSEU - Organic ⁽²⁷⁾	- / -	- / -	- / -	- / -	- / -	- / -	7 / 0.070	36 / 0.360	36 / 0.360	36 / 0.360	114 / 0.780	229 / 1.930	
1.2.1) A kit N/R - Organic ⁽²⁸⁾	- / 5.588	- / 1.372	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 6.960	
1.2.2) CWSEU - Organic ⁽²⁹⁾	- / -	- / -	- / -	- / 0.235	- / -	- / 0.235	- / 0.275	- / 2.300	- / 2.400	- / 2.600	- / -	- / 7.810	
2.1.1) Transponder - Organic ⁽¹⁾	177 / 25.161	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	177 / 25.161	
2.1.2) GPS - Organic ⁽³⁰⁾	105 / 14.890	24 / 3.162	46 / 5.984	18 / 2.741	- / -	18 / 2.741	- / -	- / -	- / -	- / -	- / -	193 / 26.777	
2.1.3) Air Data Computer - Organic ⁽¹⁾	193 / 18.446	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	193 / 18.446	
2.1.4) CWSEU - Organic ⁽³¹⁾	- / -	- / -	- / -	- / -	- / -	- / -	7 / 0.070	36 / 0.360	36 / 0.360	36 / 0.360	78 / 0.420	193 / 1.570	
2.2.1) B Kit N/R - Organic ⁽³²⁾	- / 9.548	- / -	- / -	- / 2.052	- / -	- / 2.052	- / 11.282	- / 13.835	- / 14.000	- / 16.000	- / -	- / 66.717	
2.2.2) CWSEU - Organic ⁽³³⁾	- / -	- / -	- / -	- / 0.225	- / -	- / 0.225	- / 0.270	- / 3.400	- / 3.400	- / 3.500	- / -	- / 10.795	
Subtotal: Procurement	- / 76.762	- / 4.534	- / 5.984	- / 5.253	- / -	- / 5.253	- / 11.967	- / 20.255	- / 20.520	- / 22.820	- / 1.200	- / 169.295	
Support													
3.4) Support Equipment N/R ⁽³⁴⁾	- / 0.355	- / -	- / -	- / 0.125	- / -	- / 0.125	- / 0.094	- / 0.070	- / 0.080	- / 0.087	- / -	- / 0.811	
3.5) Software	- / 4.647	- / 0.686	- / 1.400	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 6.733	
3.6) ILS	- / 5.374	- / -	- / 0.500	- / 0.337	- / -	- / 0.337	- / 0.328	- / 0.334	- / 0.339	- / 0.400	- / 6.221	- / 13.833	
3.7) Other Support ⁽³⁵⁾	- / 15.013	- / 3.556	- / 2.530	- / 3.727	- / -	- / 3.727	- / 1.384	- / 1.276	- / 1.584	- / 2.613	- / 1.809	- / 33.492	
Subtotal: Support	- / 25.389	- / 4.242	- / 4.430	- / 4.189	- / -	- / 4.189	- / 1.806	- / 1.680	- / 2.003	- / 3.100	- / 8.030	- / 54.869	
Installation													
Installation 1 of 1: ADS-B Mod Kits	- / 1.370	- / 0.068	- / 2.888	- / 3.088	- / 0.000	- / 3.088	- / -	- / -	- / -	- / -	- / 0.000	- / 7.414	
Subtotal: Installation	- / 1.370	- / 0.068	- / 2.888	- / 3.088	- / -	- / 3.088	- / -	- / -	- / -	- / -	- / 0.000	- / 7.414	
Total													
Total Cost (Procurement + Support + Installation)	103.521	8.844	13.302	12.530	0.000	12.530	13.773	21.935	22.523	25.920	9.230	231.578	

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0569 / T-45 Series	Modification Number / Title: 5 / Required Avionics Sustainment Program (RASP) (006-16)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Installation 1 of 1: ADS-B Mod Kits

Manufacturer Information

Manufacturer Name: Various - ADS-B	Manufacturer Location: Various
Administrative Leadtime (in Months): 0	Production Leadtime (in Months): 27

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates							
Delivery Dates							

Installation Information

Method of Implementation: [none specified]:: Installation Name: ADS-B Mod Kits

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	36 / 1.370	3 / 0.068	73 / 2.888	81 / 3.088	0 / 0.000	81 / 3.088	- / -	- / -	- / -	- / -	0 / 0.000	193 / 7.414
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	36 / 1.370	3 / 0.068	73 / 2.888	81 / 3.088	0 / 0.000	81 / 3.088	- / -	- / -	- / -	- / -	0 / 0.000	193 / 7.414

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot	
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4			
In	36	-	1	1	1	25	26	11	11	20	20	20	21	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	193
Out	36	-	1	1	1	25	26	11	11	20	20	20	21	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	193

Footnotes:
⁽²⁶⁾ 1.1.1) ADS-B Mod Kits: The ADS-B Modification A Kit includes Transponder, Antenna, and Air Data Computer.
⁽²⁷⁾ 1.1.3) CWSEU: A-Kits Recurring Caution Warning System Electronics Unit (CWSEU) and updates to the Caution warning Panel are required to accommodate ADS-B (Out) and other Avionics System Modifications.

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0569 / T-45 Series	Modification Number / Title: 5 / Required Avionics Sustainment Program (RASP) (006-16)
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:
<p>⁽²⁸⁾ 1.2.1) A Kit N/R: GBTS A-Kit additional nonrecurring required for Meridian Simulator.</p> <p>⁽²⁹⁾ 1.2.3) CWSEU: A-Kits NonRecurring Caution Warning System Electronics Unit (CWSEU) modifications and updates to the Caution warning Panel are required to accommodate ADS-B (Out) and other Avionics System Modifications.</p> <p>⁽³⁰⁾ 2.1.2) GPS: Procurement schedule updated to reflect Non Recurring Engineering delays. FY24 increase in unit cost due to projected updates in prices of round robin efforts to incorporate updates to the box.</p> <p>⁽³¹⁾ 2.1.4) CWSEU: B-Kits Recurring Caution Warning System Electronics Unit (CWSEU) modifications and updates to the Caution warning Panel required to accommodate ADS-B (Out) and other Avionics System Modifications.</p> <p>⁽³²⁾ 2.2.1 B Kit N/R: Funding increased in FY25 and FY27 for Midair Collision Avoidance Capability (MCAC)/ADS-B In and Smart Display modification non-recurring engineering.</p> <p>⁽³³⁾ 2.2.2) CWSEU: B-Kits Nonrecurring Caution Warning System Electronics Unit (CWSEU) modifications and updates to the Caution warning Panel required to accommodate ADS-B (Out) and other Avionics System Modifications.</p> <p>⁽³⁴⁾ System Engineering modifications to support RASP Modifications including CWSEU.</p> <p>⁽³⁵⁾ 3.7) Other Support: Additional FRC support in FY24 due to delays in ADS-B Out Validation and Verification installations and Non-recurring engineering.</p>		

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0569 / T-45 Series	Modification Number / Title: 6 / Physiological Episode Mitigation (OSIP 012-19)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	79.387	7.441	7.117	7.626	0.000	7.626	5.845	5.108	7.050	6.564	0.000	126.138
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	79.387	7.441	7.117	7.626	0.000	7.626	5.845	5.108	7.050	6.564	0.000	126.138
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	79.387	7.441	7.117	7.626	0.000	7.626	5.845	5.108	7.050	6.564	0.000	126.138

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

This Operational Safety and Improvement Program (OSIP) funds modifications to the T-45 training system to address aircrew physiological episodes (PE). PEs were increasing in number since formal reporting commenced in 2012, reaching a high of 10 events reported in a 30 day period in March 2017. PEs are currently trending down based on mitigation efforts to date. All aircraft systems that contribute to aircrew life support can be causal factors in physiological events. This includes the Onboard Oxygen Generating System (OBOGS) and all associated piping, valves, and monitors, the Environmental Control System (ECS), engine bleed air delivered to the OBOGS and ECS piping, and aircrew alerting systems to warn of failures. Modifications to the aircraft will focus on addressing the highest likelihood causal factors for PEs. These include, but are not limited to, an Automatic Backup Oxygen System (ABOS), new oxygen concentrator (GGU-25), new discrete pressure alerting, OBOGS component improvements to reduce pressure loss, ECS improvements to prevent rapid cockpit decompression, cabin altitude monitoring and alerting, and air quality monitoring and filtration. PE Mitigation efforts prior to FY 2019 were funded out of OSIP 008-95 Corrections of Deficiencies.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: FY 2024 and out funds provide for non-recurring engineering, kit procurement, and installation in support of T-45 physiological episode mitigation.

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Exhibit P-3a, Individual Modification: PB 2024 Navy										Date: March 2023			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0569 / T-45 Series					Modification Number / Title: 6 / Physiological Episode Mitigation (OSIP 012-19)			
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: T-45TS				Modification Type: PS Safety				Related RDT&E PEs: 0603208N					
Financial Plan <small>(*) Indicates the modification is being installed organically and no installation funds are required.</small>	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
1.1.1) Automatic Backup Oxygen System - NonOrganic ⁽³⁶⁾ <i>Installation 1 of 2</i>	184 / 41.449	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	184 / 41.449	
1.1.2) GGU-25 - Organic ⁽³⁷⁾	4 / 0.240	28 / 2.733	28 / 1.710	28 / 1.710	- / -	28 / 1.710	28 / 1.710	21 / 1.283	28 / 1.710	28 / 1.710	- / -	193 / 12.806	
1.2.1) Install Kits NR - Organic ⁽³⁸⁾	- / 4.888	- / -	- / -	- / 0.240	- / -	- / 0.240	- / 0.240	- / 0.194	- / 0.345	- / 0.350	- / -	- / 6.257	
2.1.1) Oxygen Concentrator- GGU-25 (Hypoxia Prevention) - NonOrganic ⁽³⁹⁾ <i>Installation 2 of 2</i>	193 / 8.179	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	193 / 8.179	
2.1.2) EEOS - Organic ⁽⁴⁰⁾	386 / 1.897	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	386 / 1.897	
2.2.1) Install Equipment N/R - Organic ⁽⁴¹⁾	- / -	- / 0.602	- / 1.565	- / 1.000	- / -	- / 1.000	- / 1.000	- / 1.000	- / 1.000	- / 1.000	- / -	- / 17.167	
Subtotal: Procurement	- / 56.653	- / 3.335	- / 3.275	- / 2.950	- / -	- / 2.950	- / 2.950	- / 2.477	- / 3.055	- / 3.060	- / 0.000	- / 77.755	
Support													
3.3) Support Equipment N/R ⁽⁴²⁾	- / 0.557	- / -	- / 0.118	- / 0.118	- / -	- / 0.118	- / 0.118	- / 0.118	- / 0.118	- / 0.118	- / -	- / 1.265	
3.4) ILS ⁽⁴³⁾	- / 3.998	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 3.998	
3.5) Other Support ⁽⁴⁴⁾	- / 18.040	- / 2.987	- / 2.065	- / 2.899	- / -	- / 2.899	- / 1.118	- / 1.014	- / 1.721	- / 1.800	- / -	- / 31.644	
Subtotal: Support	- / 22.595	- / 2.987	- / 2.183	- / 3.017	- / -	- / 3.017	- / 1.236	- / 1.132	- / 1.839	- / 1.918	- / 0.000	- / 36.907	
Installation													
Installation 1 of 2: Automatic Backup Oxygen System	- / 0.139	- / 1.119	- / 1.219	- / 1.219	- / 0.000	- / 1.219	- / 1.219	- / 1.059	- / 1.324	- / 1.147	- / 0.000	- / 8.445	
Installation 2 of 2: Oxygen Concentrator- GGU-25 (Hypoxia Prevention)	- / -	- / -	- / 0.440	- / 0.440	- / 0.000	- / 0.440	- / 0.440	- / 0.440	- / 0.832	- / 0.439	- / 0.000	- / 3.031	
Subtotal: Installation	- / 0.139	- / 1.119	- / 1.659	- / 1.659	- / -	- / 1.659	- / 1.659	- / 1.499	- / 2.156	- / 1.586	- / 0.000	- / 11.476	
Total													
Total Cost (Procurement + Support + Installation)	79.387	7.441	7.117	7.626	0.000	7.626	5.845	5.108	7.050	6.564	0.000	126.138	

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0569 / T-45 Series	Modification Number / Title: 6 / Physiological Episode Mitigation (OSIP 012-19)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Installation 1 of 2: Automatic Backup Oxygen System

Manufacturer Information

Manufacturer Name: Boeing - Automatic Backup Oxygen System ⁽⁴⁵⁾	Manufacturer Location: St. Louis, MO
Administrative Leadtime (in Months): 1	Production Leadtime (in Months): 12

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates							
Delivery Dates							

Installation Information

Method of Implementation: CONTRACT FIELD MODIFICATION TEAM:: Installation Name: Automatic Backup Oxygen System

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	1 / 0.139	28 / 1.119	28 / 1.219	28 / 1.219	0 / 0.000	28 / 1.219	28 / 1.219	24 / 1.059	30 / 1.324	26 / 1.147	0 / 0.000	193 / 8.445
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	1 / 0.139	28 / 1.119	28 / 1.219	28 / 1.219	0 / 0.000	28 / 1.219	28 / 1.219	24 / 1.059	30 / 1.324	26 / 1.147	0 / 0.000	193 / 8.445

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	1	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	6	6	6	6	7	7	8	8	6	6	6	8	-	193
Out	10	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	6	6	6	6	3	7	7	8	5	5	3	-	-	184

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0569 / T-45 Series	Modification Number / Title: 6 / Physiological Episode Mitigation (OSIP 012-19)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Installation 2 of 2: Oxygen Concentrator- GGU-25 (Hypoxia Prevention)

Manufacturer Information

Manufacturer Name: Cobham Group	Manufacturer Location: Davenport, IA
Administrative Leadtime (in Months): 1	Production Leadtime (in Months): 12

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates							
Delivery Dates							

Installation Information

Method of Implementation: CONTRACT FIELD MODIFICATION TEAM:: Installation Name: Oxygen Concentrator- GGU-25 (Hypoxia Preventio

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	28 / 0.440	28 / 0.440	0 / 0.000	28 / 0.440	28 / 0.440	28 / 0.440	53 / 0.832	28 / 0.439	0 / 0.000	193 / 3.031
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	28 / 0.440	28 / 0.440	0 / 0.000	28 / 0.440	28 / 0.440	28 / 0.440	53 / 0.832	28 / 0.439	0 / 0.000	193 / 3.031

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	13	13	13	14	7	7	7	7	-	193
Out	-	-	-	-	-	-	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	13	13	13	14	7	7	7	7	7	193

Footnotes:
⁽³⁶⁾ 1.1.1) Automatic Backup Oxygen System: 9 of the 40 kits previously planned to be procured in OSIP 008-95 were procured in FY18, all remaining kits will be procured in OSIP 012-19. All 193 kits will be installed in OSIP 012-19. ABOS Installs have been shifted to FY21 due to delays in Non-Recurring Engineering, contract awards, and Test Aircraft Availability. Installs through FY28 due to long lead times and installation complexity.

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0569 / T-45 Series	Modification Number / Title: 6 / Physiological Episode Mitigation (OSIP 012-19)
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:
<p>⁽³⁷⁾ 1.1.2) GGU-25 A Kits procurement shifted to the right due to delays in Non-Recurring Engineering (NRE).</p> <p>⁽³⁸⁾ 1.2.1) Install Kits NR: Funding required for Phase II incorporation of GGU-25 in to Crash Survivable Memory Unit/Digital Data Set for monitoring and download for PE determination. Cost increase in FY27 due to costs associated with incorporation of Oxygen Monitoring data on the Crash Survivable Memory Unit/Digital Data Set.</p> <p>⁽³⁹⁾ 2.1.1) Oxygen Concentrator - GGU-25: FY22 GGU-25 install schedule shifted to FY23 due to delays in NRE.</p> <p>⁽⁴⁰⁾ 2.1.2) EEOS: Supports procurement of Enhanced Emergency Oxygen Supply (EEOS) kits required for mitigation of T-45 physiological episodes. Two kits per aircraft are required.</p> <p>⁽⁴¹⁾ 2.2.1) Install Equipment N/R: Funding for non-recurring engineering in support of ECPs resulting from Physiological Mitigation (PE) root cause corrective actions. Non-recurring for Installation support for the ABOS, GGU-25 and other PE related ECPs.</p> <p>⁽⁴²⁾ 3.3) Support Equipment N/R: Funding for Automatic Backup Oxygen System (ABOS) Production Kits.</p> <p>⁽⁴³⁾ 3.4) ILS: Funding supports ABOS and estimated number of engineering variations that will require OEM reachback</p> <p>⁽⁴⁴⁾ 3.5) Other Support: Increase in support in FY24 due to additional non-recurring engineering and organic technical support required to complete installation documentation and technical directives. Prototype installation challenges require more than 30 significant updates to design and installation documentation. In FY25 - FY28 the NRE costs associated with initial installations should stabilize, thus reducing the Other Support costs.</p> <p>⁽⁴⁵⁾ 9 ABOS Kits procured under OSIP 008-95.</p>		

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Exhibit P-3a, Individual Modification: PB 2024 Navy	Date: March 2023
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Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0569 / T-45 Series	Modification Number / Title: 7 / Inactive OSIPs
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ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	104.394	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	104.394
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) <i>(\$ in Millions)</i>	104.394	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	104.394
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	104.394	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	104.394

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Dollars)</i>	-	-	-	-	-	-	-	-	-	-	-	-

Description:
Inactive OSIPs

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Exhibit P-3a, Individual Modification: PB 2024 Navy **Date:** March 2023

Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1 **P-1 Line Item Number / Title:** 0569 / T-45 Series **Modification Number / Title:** 7 / Inactive OSIPs

ID Code (A=Service Ready, B=Not Service Ready) : **MDAP/MAIS Code:**

Models of Systems Affected: [No Model Specified] **Modification Type:** TBD **Related RDT&E PEs:**

Financial Plan <small>(*) Indicates the modification is being installed organically and no installation funds are required.</small>	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Procurement												
1.1.1) Inactive OSIPs - Organic ^(*)	- / 93.874	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 93.874
1.1.2) FY 20 Enacted Rescissions - Organic ^(*)	- / 10.520	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 10.520
<i>Subtotal: Procurement</i>	<i>- / 104.394</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / 0.000</i>	<i>- / 104.394</i>
Installation												
<i>Subtotal: Installation</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>
Total												
Total Cost (Procurement + Support + Installation)	104.394	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	104.394

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Exhibit P-40, Budget Line Item Justification: PB 2024 Navy **Date:** March 2023

Appropriation / Budget Activity / Budget Sub Activity: 1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft	P-1 Line Item Number / Title: 0570 / Power Plant Changes
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	727.538	28.923	24.685	21.079	0.000	21.079	25.676	25.932	26.047	26.811	17.225	923.916
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	727.538	28.923	24.685	21.079	0.000	21.079	25.676	25.932	26.047	26.811	17.225	923.916
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	727.538	28.923	24.685	21.079	0.000	21.079	25.676	25.932	26.047	26.811	17.225	923.916

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

This line item funds modifications to all in-service aircraft engines. Power Plant Changes (PPC) are required throughout the service life of each aircraft to correct flight deficiencies and improve operational readiness while reducing engine operating costs. This program finances the procurement and installation of retrofit kits for all Navy and Marine Corp aircraft engines and related propulsion hardware such as propellers, starters and transmissions. The overall goal of the modifications budgeted is to continue modification efforts previously initiated on the engines for the AV-8B, F/A-18C/D & E/F, EA-18G, F-16, F-5, H-60, H-53, EA-6B, T-38, T-45, P-3, P-8A, E-2C, E-2D, C-2A, C-130, UH-1Y, AH-1Z, JSF, H-53 and AE1107C (V-22).

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Exhibit P-40, Budget Line Item Justification: PB 2024 Navy **Date:** March 2023

Appropriation / Budget Activity / Budget Sub Activity: 1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft	P-1 Line Item Number / Title: 0570 / Power Plant Changes
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	1 / Power Plant Changes (Approx. 80% Safety, 20% Reliability)				- / 727.538	- / 28.923	- / 24.685	- / 21.079	- / 0.000	- / 21.079
P-40	Total Gross/Weapon System Cost				- / 727.538	- / 28.923	- / 24.685	- / 21.079	- / 0.000	- / 21.079

Exhibits Schedule					FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	1 / Power Plant Changes (Approx. 80% Safety, 20% Reliability)				- / 25.676	- / 25.932	- / 26.047	- / 26.811	- / 17.225	- / 923.916
P-40	Total Gross/Weapon System Cost				- / 25.676	- / 25.932	- / 26.047	- / 26.811	- / 17.225	- / 923.916

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

Justification:
 FY 2024 funding for procurement and installation of retrofit kits for all Navy and Marine Corp aircraft engines and related propulsion hardware.

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0570 / Power Plant Changes	Modification Number / Title: 1 / Power Plant Changes

ID Code (A=Service Ready, B=Not Service Ready) : _____ **MDAP/MAIS Code:** _____

Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	727.538	28.923	24.685	21.079	0.000	21.079	25.676	25.932	26.047	26.811	17.225	923.916
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	727.538	28.923	24.685	21.079	0.000	21.079	25.676	25.932	26.047	26.811	17.225	923.916
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	727.538	28.923	24.685	21.079	0.000	21.079	25.676	25.932	26.047	26.811	17.225	923.916

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

This program corrects aircraft flight safety deficiencies, improves operational fleet readiness, and reduces engine total cost of ownership by incorporating approved power plant changes. Power plant changes are required throughout the aircraft service life as the engine ages and operationally revealed deficiencies are discovered, researched, and solutions engineered. Propulsion and Power (P&P) Component Improvement Program (CIP), which is funded in Research Development Test & Evaluation, Navy develops and demonstrates engineering solutions to these deficiencies and through the Engineering Change Proposal (ECP) process, initiates Power Plant Change. The Power Plant Change program procures the necessary retrofit kits, support equipment, kit installation and technical data. This program provides retrofit kits for all Navy and Marine Corp aircraft engines and propulsion related hardware such as propellers, starters, generators and transmissions. Reliability Improvements are designed to increase Mean Time Between Failure and Mean Time Between Engine Removal by 30% on average and are expected to generate savings /costs avoidance in excess of \$50M annually. Aircraft engines included in Power Plant Change include: F402 Engine AV/8B, F404 Engine F/A18, F414 Engine F/A 18 E/F and EA-18G, AE1107 Engine V-22, T56 Engine P-3, C-2, E-2C/D and C130, T-64 Engine H-53, T700 Engine H-60, UH-1, CFM56-7B Engine P-8A, T408 Engine H-53K.

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Exhibit P-3a, Individual Modification: PB 2024 Navy										Date: March 2023			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0570 / Power Plant Changes					Modification Number / Title: 1 / Power Plant Changes			
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: Power Plant Changes					Modification Type: Approx. 80% Safety, 20% Reliability				Related RDT&E PEs:				
Financial Plan	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
<i>Modification Item 1 of 1: Power Plant Changes</i>													
B Kits													
Recurring													
1.1.1) CFM 56-7B - NonOrganic ⁽¹⁾	- / 6.916	- / 3.000	- / 0.570	- / 0.570	- / -	- / 0.570	- / 0.584	- / 0.663	- / 0.782	- / 1.351	- / 0.600	- / 15.036	
1.1.2) F402 AV8B - NonOrganic	- / 37.027	- / 1.849	- / 1.885	- / 1.885	- / -	- / 1.885	- / 1.922	- / 1.959	- / 1.997	- / 2.036	- / 2.000	- / 52.560	
1.1.3) F404 F/A 18 - NonOrganic	- / 41.503	- / 2.010	- / 2.050	- / 2.050	- / -	- / 2.050	- / 2.090	- / 2.131	- / 2.174	- / 2.216	- / 2.000	- / 58.224	
1.1.4) F414 F/A 18 E/F - NonOrganic ⁽²⁾	- / 52.083	- / 7.941	- / 5.780	- / 2.169	- / -	- / 2.169	- / 6.500	- / 6.429	- / 6.184	- / 6.133	- / 3.300	- / 96.519	
1.1.5) T56 P3, C2, E2, C130 - NonOrganic	- / 71.327	- / 1.336	- / 1.362	- / 1.362	- / -	- / 1.362	- / 1.388	- / 1.415	- / 1.442	- / 1.470	- / 1.825	- / 82.927	
1.1.6) T64 H53 - NonOrganic	- / 50.329	- / 1.096	- / 1.117	- / 1.117	- / -	- / 1.117	- / 1.139	- / 1.161	- / 1.183	- / 1.206	- / 1.500	- / 59.848	
1.1.7) T700 H60, AH-1 - NonOrganic	- / 55.425	- / 1.606	- / 1.637	- / 1.637	- / -	- / 1.637	- / 1.669	- / 1.701	- / 1.734	- / 1.768	- / 1.750	- / 68.927	
1.1.8) AE1107C (V-22) - NonOrganic	- / 6.097	- / 1.969	- / 2.008	- / 2.008	- / -	- / 2.008	- / 2.047	- / 2.087	- / 2.128	- / 2.170	- / 2.500	- / 23.014	
1.1.9) T408 (CH-53K) - NonOrganic	- / -	- / 1.610	- / 1.641	- / 1.641	- / -	- / 1.641	- / 1.673	- / 1.705	- / 1.738	- / 1.772	- / 1.750	- / 13.530	
1.1.10) Completed ECPs from prior years - NonOrganic	- / 245.065	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 245.065	
<i>Subtotal: Recurring</i>	- / 565.772	- / 22.417	- / 18.050	- / 14.439	- / -	- / 14.439	- / 19.012	- / 19.251	- / 19.362	- / 20.122	- / 17.225	- / 715.650	
<i>Subtotal: Power Plant Changes</i>	- / 565.772	- / 22.417	- / 18.050	- / 14.439	- / -	- / 14.439	- / 19.012	- / 19.251	- / 19.362	- / 20.122	- / 17.225	- / 715.650	
<i>Subtotal: Procurement, All Modification Items</i>	- / 565.772	- / 22.417	- / 18.050	- / 14.439	- / -	- / 14.439	- / 19.012	- / 19.251	- / 19.362	- / 20.122	- / 17.225	- / 715.650	
Support (All Modification Items)													
2.1) Data	- / 1.387	- / 0.058	- / 0.059	- / 0.059	- / -	- / 0.059	- / 0.060	- / 0.061	- / 0.062	- / 0.063	- / -	- / 1.809	
2.2) Support equipment	- / 1.485	- / 0.058	- / 0.059	- / 0.059	- / -	- / 0.059	- / 0.060	- / 0.061	- / 0.062	- / 0.063	- / -	- / 1.907	
2.3) ILS	- / 22.074	- / 1.868	- / 1.905	- / 1.905	- / -	- / 1.905	- / 1.910	- / 1.920	- / 1.921	- / 1.922	- / -	- / 35.425	
2.4) Support Costs Other	- / 78.076	- / 2.544	- / 2.595	- / 2.595	- / -	- / 2.595	- / 2.604	- / 2.608	- / 2.609	- / 2.610	- / -	- / 96.241	
<i>Subtotal: Support</i>	- / 103.022	- / 4.528	- / 4.618	- / 4.618	- / -	- / 4.618	- / 4.634	- / 4.650	- / 4.654	- / 4.658	- / 0.000	- / 135.382	
Installation													
<i>Modification Item 1 of 1: Power Plant Changes</i>	- / 58.744	- / 1.978	- / 2.017	- / 2.022	- / 0.000	- / 2.022	- / 2.030	- / 2.031	- / 2.031	- / 2.031	- / 0.000	- / 72.884	
<i>Subtotal: Installation</i>	- / 58.744	- / 1.978	- / 2.017	- / 2.022	- / -	- / 2.022	- / 2.030	- / 2.031	- / 2.031	- / 2.031	- / 0.000	- / 72.884	
Total													
Total Cost (Procurement + Support + Installation)	727.538	28.923	24.685	21.079	0.000	21.079	25.676	25.932	26.047	26.811	17.225	923.916	

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Exhibit P-3a, Individual Modification: PB 2024 Navy **Date:** March 2023

Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0570 / Power Plant Changes	Modification Number / Title: 1 / Power Plant Changes
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ID Code (A=Service Ready, B=Not Service Ready) : **MDAP/MAIS Code:**

Modification Item 1 of 1: Power Plant Changes

Manufacturer Information

Manufacturer Name: Various PPC ⁽³⁾	Manufacturer Location: Various
Administrative Leadtime (in Months): 6	Production Leadtime (in Months): 12

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates							
Delivery Dates							

Installation Information

Method of Implementation: See Notes:: Installation Name: Power Plant Installations

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	0 / 58.744	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	- / 58.744
FY 2022	- / -	0 / 1.978	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	- / 1.978
FY 2023	- / -	- / -	0 / 2.017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	- / 2.017
FY 2024	- / -	- / -	- / -	0 / 2.022	0 / 0.000	0 / 2.022	- / -	- / -	- / -	- / -	0 / 0.000	- / 2.022
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	0 / 2.030	- / -	- / -	- / -	0 / 0.000	- / 2.030
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 2.031	- / -	- / -	0 / 0.000	- / 2.031
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 2.031	0 / 2.031	0 / 0.000	- / 4.062
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	0 / 58.744	0 / 1.978	0 / 2.017	0 / 2.022	0 / 0.000	0 / 2.022	0 / 2.030	0 / 2.031	0 / 2.031	0 / 2.031	0 / 0.000	- / 72.884

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0		
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0		

Footnotes:
 (1) Increase in FY 2025 through FY 2028 is due to increase purchase of SermeTel corrosion coating on engine compressor cases for P-8A/CFM56 .
 (2) Decrease from FY 2023 to FY 2024 due to rate adjustment with payback increase in FY 2025 and FY2026. Decrease in FY 2027 is due to quantity reduction of A-18 Afterburner Spray Bar Kits.
 (3) Admin and Production Leadtimes are averages with various contract and delivery dates.

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Exhibit P-40, Budget Line Item Justification: PB 2024 Navy **Date:** March 2023

Appropriation / Budget Activity / Budget Sub Activity: 1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft	P-1 Line Item Number / Title: 0571 / JT Primary Acft Trnr Sys (JPATS)
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: 560

Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	132.339	20.958	19.780	28.005	0.000	28.005	24.375	24.921	26.379	31.943	-	308.700
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	132.339	20.958	19.780	28.005	0.000	28.005	24.375	24.921	26.379	31.943	-	308.700
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	132.339	20.958	19.780	28.005	0.000	28.005	24.375	24.921	26.379	31.943	-	308.700

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

This line item funds both major and minor modifications required for the Joint Primary Aircraft Training System (JPATS). JPATS is a joint, United States Air Force led, acquisition program. Principal JPATS mission is primary training for entry-level student pilots and primary/intermediate training for United States Navy Naval Flight Officers. JPATS includes the T-6A/B Texan II aircraft and associated Ground Based Training System (GBTS) simulator devices. The T-6 aircraft is a commercially developed and certified tandem ejection seat aircraft powered by a single turboprop engine.

The overall goal of modifications budgeted is to correct discrepancies, deficiencies and obsolescence discovered after the delivery of the aircraft. Efforts include modifications to address safety, reliability, maintainability, obsolescence, Diminishing Manufacturing Source and Material Shortages (DMSMS) and Cyber requirements.

Navy T-6 inventory is 293 aircraft (43 T-6A and 250 T-6B aircraft) with aircraft service life thru 2035. Navy JPATS inventory includes 34 Ground Based Training System (GBTS) units (7 T-6A and 27 T-6B) used for student ground training and aircraft simulation. The Department of the Navy received delivery of final production Aircraft in 2016.

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Exhibit P-40, Budget Line Item Justification: PB 2024 Navy **Date:** March 2023

Appropriation / Budget Activity / Budget Sub Activity:
1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft

P-1 Line Item Number / Title:
0571 / JT Primary Acft Trnr Sys (JPATS)

ID Code (A=Service Ready, B=Not Service Ready): A **Program Elements for Code B Items:** N/A **Other Related Program Elements:** N/A

Line Item MDAP/MAIS Code: 560

Exhibits Schedule					Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	1 / PHYSIOLOGICAL EPISODE MITIGATION (OSIP 007-20) (Flight Safety)				- / 15.255	- / 4.023	- / 1.150	- / 0.000	- / 0.000	- / 0.000
P-3a	2 / AIRFRAME/PROPULSION (OSIP 008-20) (PS Safety)				- / 11.077	- / 4.298	- / 9.957	- / 9.456	- / 0.000	- / 9.456
P-3a	3 / AVIONICS (OSIP 009-20) (Safety, Reliability, Improved Mission Capabilities)				- / 12.022	- / 12.637	- / 8.673	- / 18.549	- / 0.000	- / 18.549
P-3a	4 / Archived OSIPs (TBD)				- / 93.985	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000
P-40	Total Gross/Weapon System Cost				- / 132.339	- / 20.958	- / 19.780	- / 28.005	- / 0.000	- / 28.005

Exhibits Schedule					FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	1 / PHYSIOLOGICAL EPISODE MITIGATION (OSIP 007-20) (Flight Safety)				- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 20.428
P-3a	2 / AIRFRAME/PROPULSION (OSIP 008-20) (PS Safety)				- / 6.863	- / 4.408	- / 5.466	- / 5.632	- / 0.000	- / 57.157
P-3a	3 / AVIONICS (OSIP 009-20) (Safety, Reliability, Improved Mission Capabilities)				- / 17.512	- / 20.513	- / 20.913	- / 26.311	- / 0.000	- / 137.130
P-3a	4 / Archived OSIPs (TBD)				- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 93.985
P-40	Total Gross/Weapon System Cost				- / 24.375	- / 24.921	- / 26.379	- / 31.943	- / -	- / 308.700

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

Justification:
FY 2024 request is required for avionics and airframe/propulsion upgrade kits, and to provide support for Joint Primary Aircraft Training System retrofits.

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0571 / JT Primary Acft Trnr Sys (JPATS)	Modification Number / Title: 1 / PHYSIOLOGICAL EPISODE MITIGATION (OSIP 007-20)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	15.255	4.023	1.150	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	20.428
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	15.255	4.023	1.150	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	20.428
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	15.255	4.023	1.150	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	20.428

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

This Operational Safety and Improvement Program (OSIP) funds modifications to the T-6 training system to address aircrew physiological episodes (PE). PEs have been increasing in numbers since formal reporting commenced in 2012. All aircraft systems that contribute to aircrew life support can be causal factors in physiological episodes. This includes the Onboard Oxygen Generating System (OBOGS) and all associated piping, valves, and monitors, the Environmental Control System (ECS), engine bleed air delivered to the OBOGS and ECS piping, and aircrew alerting systems to warn of failures. Modifications to the aircraft will focus on addressing the highest likelihood causal factors for PEs. These include a new next generation oxygen concentrator, new discrete oxygen pressure and concentration alerting, OBOGS component improvements to reduce pressure loss, ECS improvements to prevent rapid cockpit decompression, cabin altitude monitoring and alerting, and air quality monitoring and filtration. PE Mitigation efforts prior to FY 2020 were funded out of OSIP 011-04 Corrections of Deficiencies.

PE 007-20 Funding moved to OSIP 008-20 Airframes and OSIP 0920 Avionics in FY24

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: FY 2020 through 2023 and out funds provided for non-recurring engineering, Project Management, kit procurement, and installation in support of T-6 physiological episode mitigation.

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Exhibit P-3a, Individual Modification: PB 2024 Navy											Date: March 2023		
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0571 / JT Primary Acft Trnr Sys (JPATS)							Modification Number / Title: 1 / PHYSIOLOGICAL EPISODE MITIGATION (OSIP 007-20)		
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: T-6A/B				Modification Type: Flight Safety				Related RDT&E PEs: 0603208N					
Financial Plan	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
<i>Modification Item 1 of 1:</i> PHYSIOLOGICAL EPISODE MITIGATION (OSIP 007-20)													
B Kits													
Recurring													
2.1.1) OBOGS Concentrator - Organic	240 / 5.113	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	240 / 5.113	
2.1.2) Enhanced OBOGS system components - Organic	98 / 1.923	98 / 2.690	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	196 / 4.613	
<i>Subtotal: Recurring</i>	- / 7.036	- / 2.690	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 9.726	
Non-Recurring													
2.2.1) Non-recurring Engineering - Organic	- / 1.577	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.577	
<i>Subtotal: Non-Recurring</i>	- / 1.577	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 1.577	
<i>Subtotal: PHYSIOLOGICAL EPISODE MITIGATION (OSIP 007-20)</i>	338 / 8.613	98 / 2.690	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	436 / 11.303	
<i>Subtotal: Procurement, All Modification Items</i>	- / 8.613	- / 2.690	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 11.303	
Support (All Modification Items)													
3.3) Other Support	- / 6.642	- / 1.333	- / 1.150	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 19.125	
<i>Subtotal: Support</i>	- / 6.642	- / 1.333	- / 1.150	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 19.125	
Installation													
<i>Subtotal: Installation</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
Total													
Total Cost (Procurement + Support + Installation)	15.255	4.023	1.150	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	20.428	

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0571 / JT Primary Acft Trnr Sys (JPATS)	Modification Number / Title: 1 / PHYSIOLOGICAL EPISODE MITIGATION (OSIP 007-20)
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:
Modification Item 1 of 1: PHYSIOLOGICAL EPISODE MITIGATION (OSIP 007-20)		

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0571 / JT Primary Acft Trnr Sys (JPATS)	Modification Number / Title: 2 / AIRFRAME/PROPULSION (OSIP 008-20)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	11.077	4.298	9.957	9.456	0.000	9.456	6.863	4.408	5.466	5.632	0.000	57.157
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	11.077	4.298	9.957	9.456	0.000	9.456	6.863	4.408	5.466	5.632	0.000	57.157
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	11.077	4.298	9.957	9.456	0.000	9.456	6.863	4.408	5.466	5.632	0.000	57.157

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

This Operational Safety Improvement Program (OSIP) funds airframe and propulsion system modifications required through the lifecycle of the Joint Primary Aircraft Training System. This includes the entire airframe, its components and subassemblies, related Support Equipment and Ground Based Training System.

This OSIP funds efforts that include post production modifications to address emergent airframe and propulsion safety, reliability, maintainability and Diminishing Manufacturing Source and Material Shortages (DMSMS) issues.

Airframe/Propulsion Engineering Change Proposals (ECPs) include: Wing Rib 1 reinforcements, Canopy Fracturing Initiation System, LED Landing Light conversion, airframe antenna gasket kits, Circuit Breaker Panel safety improvement, Generator cable standoff Kit, flight control trim actuator upgrade and the Ejection Seat Rigging Line Tray replacement.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: Continuation of modification cost, schedule and technical risk mitigation by addressing fleet issues with needed Engineering Change Proposals.

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy										Date: March 2023			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0571 / JT Primary Acft Trnr Sys (JPATS)					Modification Number / Title: 2 / AIRFRAME/PROPULSION (OSIP 008-20)			
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: T-6 A/B				Modification Type: PS Safety				Related RDT&E PEs:					
Financial Plan <small>(*) Indicates the modification is being installed organically and no installation funds are required.</small>	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total	
	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	
Procurement													
1.1.1) Canopy Fracturing Initiation System (CFIS) - Ballistic - Organic ^(*)	115 / 0.488	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	115 / 0.488	
2.1.1) Airframe Structural/Sub-systems - Organic ^(*)	- / -	- / -	145 / 2.431	130 / 2.223	- / -	130 / 2.223	18 / 0.308	- / -	- / -	- / -	- / -	293 / 4.962	
2.1.2) Airframe - Emergent ECP - Organic ^(*) (1)	- / 0.799	- / 1.000	- / 2.447	- / 3.391	- / -	- / 3.391	- / 3.458	- / 2.495	- / 3.525	- / 3.636	- / -	- / 20.751	
2.1.3) Wing Rib 1 - Organic ^(*) (2)	22 / 0.221	131 / 0.269	8 / 0.015	36 / 0.068	- / -	36 / 0.068	- / -	- / -	- / -	- / -	- / -	197 / 0.573	
2.1.4) Wing Rib I Installation - Organic ^(*) (3)	91 / 4.524	14 / 0.518	40 / 1.442	52 / 1.924	- / -	52 / 1.924	33 / 1.221	- / -	- / -	- / -	- / -	230 / 9.629	
2.1.5) Wing Rib 1 Kits for CFT 1 - NonOrganic Installation 1 of 2	- / -	- / -	28 / 0.054	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	28 / 0.054	
2.1.6) Wing Rib Kits for CFT 2 - NonOrganic Installation 2 of 2	- / -	11 / 0.021	24 / 0.046	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	35 / 0.067	
2.2.1) Non-Recurring Engineering - Organic ^(*)	- / 1.380	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.380	
Subtotal: Procurement	- / 7.412	- / 1.808	- / 6.435	- / 7.606	- / -	- / 7.606	- / 4.987	- / 2.495	- / 3.525	- / 3.636	- / 0.000	- / 37.904	
Support													
3.3) Other Support ⁽⁴⁾	- / 3.665	- / 2.083	- / 1.598	- / 1.850	- / -	- / 1.850	- / 1.876	- / 1.913	- / 1.941	- / 1.996	- / -	- / 16.922	
Subtotal: Support	- / 3.665	- / 2.083	- / 1.598	- / 1.850	- / -	- / 1.850	- / 1.876	- / 1.913	- / 1.941	- / 1.996	- / 0.000	- / 16.922	
Installation													
Installation 1 of 2: Wing Rib 1 Kits for CFT 1	- / -	- / -	- / 1.036	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 1.036	
Installation 2 of 2: Wing Rib Kits for CFT 2	- / -	- / 0.407	- / 0.888	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 1.295	
Subtotal: Installation	- / 0.000	- / 0.407	- / 1.924	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 2.331	
Total													
Total Cost (Procurement + Support + Installation)	11.077	4.298	9.957	9.456	0.000	9.456	6.863	4.408	5.466	5.632	0.000	57.157	

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0571 / JT Primary Acft Trnr Sys (JPATS)	Modification Number / Title: 2 / AIRFRAME/PROPULSION (OSIP 008-20)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Installation 1 of 2: Wing Rib 1 Kits for CFT 1

Manufacturer Information

Manufacturer Name: AMENTUM	Manufacturer Location: Germantown, Maryland
Administrative Leadtime (in Months): 0	Production Leadtime (in Months): 2

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates		Oct 2022					
Delivery Dates		Dec 2022					

Installation Information

Method of Implementation: Contractor Field Modification:: Installation Name: Wing Rib 1 Kits for CFT 1

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	28 / 1.036	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	28 / 1.036
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	28 / 1.036	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	28 / 1.036

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot	
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4			
In	-	-	-	-	-	7	7	7	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	28
Out	-	-	-	-	-	7	7	7	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	28

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0571 / JT Primary Acft Trnr Sys (JPATS)	Modification Number / Title: 2 / AIRFRAME/PROPULSION (OSIP 008-20)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Installation 2 of 2: Wing Rib Kits for CFT 2

Manufacturer Information

Manufacturer Name: TYONEK WORLDWIDE SERVICES, INC.	Manufacturer Location: DADISON AL
Administrative Leadtime (in Months): 6	Production Leadtime (in Months): 2

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates	Mar 2022	Mar 2023					
Delivery Dates	May 2022	Jan 2024					

Installation Information

Method of Implementation: Contract Field Team:: Installation Name: Wing Rib Kits for CFT 2

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	5 / 0.407	6 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	11 / 0.407
FY 2023	- / -	- / -	24 / 0.888	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	24 / 0.888
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	5 / 0.407	30 / 0.888	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	35 / 1.295

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot	
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4			
In	-	-	-	-	5	6	8	8	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	35
Out	-	-	-	-	5	6	-	8	8	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	35

Footnotes:
 (1) 2.1.2 Increase in cost in FY24 due to additional Emergent Class I ECP's and changes in technical directives.
 (2) 2.1.3) 33 Wing Rib 1 Kits procured under OSIP 011-04 in prior year.

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0571 / JT Primary Acft Trnr Sys (JPATS)	Modification Number / Title: 2 / AIRFRAME/PROPULSION (OSIP 008-20)
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:
<p>⁽³⁾ 2.1.4 Increase cost associated with installations at NAS whiting field</p> <p>⁽⁴⁾ 3.3 Cost increase to provide Project Management, Engineering and CSS support to address emergent technical issues, Wing Rib 1 reinforcements, Canopy Fracturing Initiation System, LED Landing Light conversion, airframe antenna gasket kits, Circuit Breaker Panel safety improvement, Generator cable standoff Kit, flight control trim actuator upgrade and the Ejection Seat Rigging Line Tray replacement.for future initiatives to include aircraft and GBTS (Ground Based Training System), Wing Rib 1, ECP proposal and modifications.</p>		

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0571 / JT Primary Acft Trnr Sys (JPATS)	Modification Number / Title: 3 / AVIONICS (OSIP 009-20)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	12.022	12.637	8.673	18.549	0.000	18.549	17.512	20.513	20.913	26.311	0.000	137.130
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	12.022	12.637	8.673	18.549	0.000	18.549	17.512	20.513	20.913	26.311	0.000	137.130
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	12.022	12.637	8.673	18.549	0.000	18.549	17.512	20.513	20.913	26.311	0.000	137.130

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

This Operational Safety Improvement Program (OSIP) funds avionics and electrical system modifications required during sustainment through the lifecycle of the Joint Primary Aircraft Training System. This includes the entire avionics system, its components and subassemblies and related Support Equipment and Ground Based Training System.

This OSIP funds efforts that include post production modifications to address emergent avionics safety, reliability, maintainability, obsolescence, Diminishing Manufacturing Source and Material Shortages (DMSMS) issues and Cyber compliance.

Avionics Engineering Change Proposals (ECPs) includes but not limited to: Crash Survivable Cockpit Voice Recorder (CSR), T-6A KLN900 GPS Obsolescence, Situational Awareness Modification, T-6A Distance Measuring Equipment obsolescence, T-6A VHF NAV/COM obsolescence, Avionics Hold Down rack modification and the T-6B Integrated Avionics Computer Heat Management, Graphics Card modification and PE Mitigation efforts.

PE 007-20 Realigned to OSIP 0920 Avionics in FY24

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: Continued avionics extension by continuing incorporation of Engineering Change Proposals.

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy										Date: March 2023			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0571 / JT Primary Acft Trnr Sys (JPATS)						Modification Number / Title: 3 / AVIONICS (OSIP 009-20)			
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: T-6 A/B				Modification Type: Safety, Reliability, Improved Mission Capabilities				Related RDT&E PEs:					
Financial Plan <small>(*) Indicates the modification is being installed organically and no installation funds are required.</small>	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total	
	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	
Procurement													
1.1.1) Crash Survivable Cockpit Recorder A Kit - Organic ^{(*) (5)}	- / -	28 / 0.184	26 / 0.171	117 / 0.788	- / -	117 / 0.788	122 / 0.843	- / -	- / -	- / -	- / -	293 / 1.986	
2.1.2) Distance Measuring Equipment (DME) - Obsolescence - Organic ^{(*) (6)}	- / -	43 / 2.060	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	43 / 2.060	
2.1.3) Crash Survivable Cockpit Recorder B KIts - NonOrganic ⁽⁷⁾ <i>Installation 1 of 3</i>	- / -	28 / 2.193	26 / 2.036	117 / 8.254	- / -	117 / 8.254	122 / 8.138	- / -	- / -	- / -	- / -	293 / 20.621	
2.1.5) Avionics Obsolescence - Organic ^{(*) (8)}	- / -	- / -	90 / 1.360	109 / 1.680	- / -	109 / 1.680	94 / 1.476	- / -	- / -	- / -	- / -	293 / 4.516	
2.1.6) Avionics - Emergent ECP - Organic ^{(*) (9)}	- / 2.382	- / 2.563	- / 2.421	- / 1.152	- / -	- / 1.152	- / 0.280	- / 17.305	- / 19.051	- / 24.373	- / -	- / 69.527	
2.1.7) Avionics Situational Awareness - NonOrganic ⁽¹⁰⁾ <i>Installation 2 of 3</i>	- / -	- / -	- / -	146 / 0.553	- / -	146 / 0.553	147 / 0.557	- / -	- / -	- / -	- / -	293 / 1.110	
2.1.8) Avionics Obsolescence - KLN900 GPS - NonOrganic ⁽¹¹⁾ <i>Installation 3 of 3</i>	- / -	- / -	- / -	23 / 1.104	- / -	23 / 1.104	20 / 0.989	- / -	- / -	- / -	- / -	43 / 2.093	
2.2.1) Non-recurring Engineering - Organic ^{(*) (12)}	- / 6.078	- / -	- / 1.173	- / 0.970	- / -	- / 0.970	- / -	- / -	- / -	- / -	- / -	- / 8.221	
Subtotal: Procurement	- / 8.460	- / 7.000	- / 7.161	- / 14.501	- / -	- / 14.501	- / 12.283	- / 17.305	- / 19.051	- / 24.373	- / 0.000	- / 110.134	
Support													
3.3) Other Support ⁽¹³⁾	- / 3.562	- / 5.637	- / 1.098	- / 1.690	- / -	- / 1.690	- / 1.857	- / 1.831	- / 1.862	- / 1.938	- / -	- / 19.475	
Subtotal: Support	- / 3.562	- / 5.637	- / 1.098	- / 1.690	- / -	- / 1.690	- / 1.857	- / 1.831	- / 1.862	- / 1.938	- / 0.000	- / 19.475	
Installation													
Installation 1 of 3: Crash Survivable Cockpit Recorder B KIts	- / -	- / -	- / 0.414	- / 1.393	- / 0.000	- / 1.393	- / 2.001	- / 1.004	- / -	- / -	- / 0.000	- / 4.812	
Installation 2 of 3: Avionics Situational Awareness	- / -	- / -	- / -	- / 0.872	- / 0.000	- / 0.872	- / 1.184	- / 0.288	- / -	- / -	- / 0.000	- / 2.344	
Installation 3 of 3: Avionics Obsolescence - KLN900 GPS	- / -	- / -	- / -	- / 0.093	- / 0.000	- / 0.093	- / 0.187	- / 0.085	- / -	- / -	- / 0.000	- / 0.365	
Subtotal: Installation	- / 0.000	- / -	- / 0.414	- / 2.358	- / -	- / 2.358	- / 3.372	- / 1.377	- / -	- / -	- / 0.000	- / 7.521	
Total													
Total Cost (Procurement + Support + Installation)	12.022	12.637	8.673	18.549	0.000	18.549	17.512	20.513	20.913	26.311	0.000	137.130	

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy **Date:** March 2023

Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0571 / JT Primary Acft Trnr Sys (JPATS)	Modification Number / Title: 3 / AVIONICS (OSIP 009-20)
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ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Installation 1 of 3: Crash Survivable Cockpit Recorder B Klts

Manufacturer Information

Manufacturer Name: Scientific Research Corp	Manufacturer Location: Atlanta, GA
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Administrative Leadtime (in Months): 2	Production Leadtime (in Months): 5
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Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates		Nov 2022	Nov 2023	Nov 2024			
Delivery Dates		Apr 2023	Apr 2024	Apr 2025			

Installation Information

Method of Implementation: CFT:: Installation Name: Crash Survivable Cockpit Recorder B Klts

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	14 / 0.223	14 / 0.223	0 / 0.000	14 / 0.223	- / -	- / -	- / -	- / -	0 / 0.000	28 / 0.446
FY 2023	- / -	- / -	12 / 0.191	14 / 0.223	0 / 0.000	14 / 0.223	- / -	- / -	- / -	- / -	0 / 0.000	26 / 0.414
FY 2024	- / -	- / -	- / -	58 / 0.947	0 / 0.000	58 / 0.947	59 / 0.964	- / -	- / -	- / -	0 / 0.000	117 / 1.911
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	62 / 1.037	60 / 1.004	- / -	- / -	0 / 0.000	122 / 2.041
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	26 / 0.414	86 / 1.393	0 / 0.000	86 / 1.393	121 / 2.001	60 / 1.004	- / -	- / -	0 / 0.000	293 / 4.812

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	13	13	14	14	29	29	29	30	31	31	30	30	-	-	-	-	-	-	-	-	-	-	-	-
Out	-	-	-	-	-	-	-	13	13	14	14	29	29	29	30	31	31	30	30	-	-	-	-	-	-	-	-	-	-	-	-

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Exhibit P-3a, Individual Modification: PB 2024 Navy **Date:** March 2023

Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0571 / JT Primary Acft Trnr Sys (JPATS)	Modification Number / Title: 3 / AVIONICS (OSIP 009-20)
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ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Installation 2 of 3: Avionics Situational Awareness

Manufacturer Information

Manufacturer Name: TBD	Manufacturer Location: TBD
Administrative Leadtime (in Months): 1	Production Leadtime (in Months): 4

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates			Oct 2023	Oct 2024			
Delivery Dates			Feb 2024	Feb 2025			

Installation Information

Method of Implementation: Contract field team:: Installation Name: Avionics Situational Awareness

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	109 / 0.872	0 / 0.000	109 / 0.872	37 / 0.296	- / -	- / -	- / -	0 / 0.000	146 / 1.168
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	111 / 0.888	36 / 0.288	- / -	- / -	0 / 0.000	147 / 1.176
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	109 / 0.872	0 / 0.000	109 / 0.872	148 / 1.184	36 / 0.288	- / -	- / -	0 / 0.000	293 / 2.344

Installation Schedule

PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	35	37	37	37	37	37	37	36	-	-	-	-	-	-	-	-	-	-	-	-	293
Out	-	-	-	-	-	-	-	-	-	35	37	37	37	37	37	37	36	-	-	-	-	-	-	-	-	-	-	-	-	293

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0571 / JT Primary Acft Trnr Sys (JPATS)	Modification Number / Title: 3 / AVIONICS (OSIP 009-20)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Installation 3 of 3: Avionics Obsolescence - KLN900 GPS

Manufacturer Information

Manufacturer Name: TBD	Manufacturer Location: TBD
Administrative Leadtime (in Months): 3	Production Leadtime (in Months): 6

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates			Dec 2023	Dec 2024			
Delivery Dates			Jun 2024	Jun 2025			

Installation Information

Method of Implementation: Contractor field team:: Installation Name: Avionics Obsolescence - KLN900 GPS

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	11 / 0.093	0 / 0.000	11 / 0.093	12 / 0.102	- / -	- / -	- / -	0 / 0.000	23 / 0.195
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	10 / 0.085	10 / 0.085	- / -	- / -	0 / 0.000	20 / 0.170
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	11 / 0.093	0 / 0.000	11 / 0.093	22 / 0.187	10 / 0.085	- / -	- / -	0 / 0.000	43 / 0.365

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot	
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4			
In	-	-	-	-	-	-	-	-	-	-	-	5	6	6	6	5	5	5	5	-	-	-	-	-	-	-	-	-	-	-	-	43
Out	-	-	-	-	-	-	-	-	-	-	-	5	6	6	6	5	5	5	5	-	-	-	-	-	-	-	-	-	-	-	-	43

Footnotes:
⁽⁵⁾ 1.1.1 The Crash Survivable Cockpit Recorder is a DoD mandated safety modification to the T-6 Independent Data Acquisition Recorder system, adding capability to record cockpit ambient and voice audio
⁽⁶⁾ 2.1.2 The Distance Measuring Equipment (DME) project replaces the obsolete DME with a new DME and DME rack. The DME is used for navigation and course distance measurement to ground based navigational facilities.

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0571 / JT Primary Acft Trnr Sys (JPATS)	Modification Number / Title: 3 / AVIONICS (OSIP 009-20)
ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:	
<p>⁽⁷⁾ 2.1.3 Crash Survivable Cockpit Recorder (CSCR) Kit buy and installation delayed 1 year due to a fact of life changes. Unit cost and quantities updated to reflect Independent Government Cost Estimate (IGCE) revised cost. Revised CSCR has a higher level of integration complexity than was assumed originally.</p> <p>⁽⁸⁾ 2.1.5) Avionics Obsolescence: Modifications to the avionics will be required to upgrade the electronic flight instrument displays, Altitude and Heading Reference (AHRS) controller, Midair Collision Avoidance, Military Flight Operations Quality Assurance (MFOQA) and backup flight instruments and those avionic components associated with the affected aircraft systems to include associated software updates. Previously budgeted under OSIP 011-04.</p> <p>⁽⁹⁾ 2.1.6) To address emergent Avionics Obsolescence issues with T-6A and T-6B.</p> <p>⁽¹⁰⁾ 2.1.7 The Situational Awareness Modification replaces the currently approved electronic kneeboard mount with an improved mount and provisions for USB power and ADSB-In to improve weather and traffic situational awareness.</p> <p>⁽¹¹⁾ 2.1.8 Avionics Obsolescence - T-6A KLN900 GPS replacement is required to address DMSMS and operational impact due to lack of certification for precision GPS landing approaches and the end of OEM repair support in 2026. The project replaces the KLN900 GPS with a new GPS that meets FAA GPS precision approach requirements needed to conduct training flights.</p> <p>⁽¹²⁾ 2.2.1: NRE associated with Engineering Change Proposals, Technical directives, VAL.VER and pre-fielding activities associated with avionics component modifications to that include the Crash Survivable Cockpit Voice Recorder, Avionics Situational Awareness and KLN900 GPS.</p> <p>⁽¹³⁾ 3.3) Provide Project Management, Engineering and CSS support to address emergent technical issues, safety and obsolescence required to sustain aircraft and GBTS systems. These include but are not limited to Crash Survivable Cockpit Recorder (CSR), T-6A KLN900 GPS Obsolescence, T-6A/B Situational Awareness Modification, T-6A Distance Measuring Equipment obsolescence and Crash Survivable Cockpit Recorder. Realignment from PE 007-20.</p>		

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Exhibit P-3a, Individual Modification: PB 2024 Navy **Date:** March 2023

Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0571 / JT Primary Acft Trnr Sys (JPATS)	Modification Number / Title: 4 / Archived OSIPs
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ID Code (A=Service Ready, B=Not Service Ready) : **MDAP/MAIS Code:**

Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	93.985	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	93.985
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) <i>(\$ in Millions)</i>	93.985	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	93.985
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	93.985	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	93.985

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Dollars)</i>	-	-	-	-	-	-	-	-	-	-	-	-

Description:

This OSIP is only to capture the funding from old OSIP's no longer reported.

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Exhibit P-3a, Individual Modification: PB 2024 Navy **Date:** March 2023

Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0571 / JT Primary Acft Trnr Sys (JPATS)	Modification Number / Title: 4 / Archived OSIPs
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ID Code (A=Service Ready, B=Not Service Ready) : **MDAP/MAIS Code:**

Models of Systems Affected: [No Model Specified] **Modification Type:** TBD **Related RDT&E PEs:**

Financial Plan	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Procurement												
<i>Modification Item 1 of 1: Archived OSIPs</i>												
A Kits												
Recurring												
1.1.1) Archived ECPs OSIP 011-04 - Organic	- / 55.099	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 55.099
1.1.2) Archived ECPs OSIP 007-16 - Organic	- / 38.886	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 38.886
<i>Subtotal: Recurring</i>	- / 93.985	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 93.985
<i>Subtotal: Archived OSIPs</i>	- / 93.985	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 93.985
<i>Subtotal: Procurement, All Modification Items</i>	- / 93.985	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 93.985
Installation												
<i>Subtotal: Installation</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total												
Total Cost (Procurement + Support + Installation)	93.985	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	93.985

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0571 / JT Primary Acft Trnr Sys (JPATS)	Modification Number / Title: 4 / Archived OSIPs
ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:	
Modification Item 1 of 1: Archived OSIPs		

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Exhibit P-40, Budget Line Item Justification: PB 2024 Navy **Date:** March 2023

Appropriation / Budget Activity / Budget Sub Activity: 1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft	P-1 Line Item Number / Title: 0575 / Aviation Life Support Mods
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	121.327	2.416	1.143	0.000	0.000	0.000	9.793	11.607	12.140	8.570	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	121.327	2.416	1.143	0.000	0.000	0.000	9.793	11.607	12.140	8.570	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	121.327	2.416	1.143	0.000	0.000	0.000	9.793	11.607	12.140	8.570	Continuing	Continuing

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

This line item supports Physiological Episodes (PE) and is a continuation of efforts previously funded in BLI 0525 F/A-18 Series and BLI 0569 T-45 Series. Oxygen System Upgrades incorporates Aircrew Oxygen System related modifications to all USN/USMC fixed wing aircraft.

This line item funds Aircraft Integration Modifications for the Enhanced Visual Acuity (EVA) program for USN/USMC Rotary Wing and Tilt Rotor Aircraft and Aircrew Oxygen System related modifications for Physiological Episode (PE) program for fixed wing aircraft. This line item will also be utilized for future Aviation Life Support Modifications as required.

This line item provides funding for procurement of aircraft modification kits and installation to support integration of the upgraded helmet mounted solution for the F/A-18E/F and EA-18G aircraft for the Improved Joint Helmet Mounted Cueing System (IJHMCS).

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Exhibit P-40, Budget Line Item Justification: PB 2024 Navy **Date:** March 2023

Appropriation / Budget Activity / Budget Sub Activity:
1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft

P-1 Line Item Number / Title:
0575 / Aviation Life Support Mods

ID Code (A=Service Ready, B=Not Service Ready): A **Program Elements for Code B Items:** N/A **Other Related Program Elements:** N/A

Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	1 / 003-19 Physiological Episodes (Performance Enhancement)				- / 93.759	- / 2.416	- / 1.143	- / 0.000	- / 0.000	- / 0.000
P-3a	2 / 002-23 Enhanced Visual Acuity Mods (Performance Enhancement)				- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000
P-3a	3 / 005-25 IJHMCS (Performance Enhancement)				- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000
P-3a	4 / Inactive OSIPs (N/A)				- / 27.568	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000
P-40	Total Gross/Weapon System Cost				- / 121.327	- / 2.416	- / 1.143	- / 0.000	- / 0.000	- / 0.000

Exhibits Schedule					FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	1 / 003-19 Physiological Episodes (Performance Enhancement)				- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 97.318
P-3a	2 / 002-23 Enhanced Visual Acuity Mods (Performance Enhancement)				- / 6.093	- / 6.107	- / 6.440	- / 6.570	- / 61.354	- / 86.564
P-3a	3 / 005-25 IJHMCS (Performance Enhancement)				- / 3.700	- / 5.500	- / 5.700	- / 2.000	Continuing	Continuing
P-3a	4 / Inactive OSIPs (N/A)				- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 27.568
P-40	Total Gross/Weapon System Cost				- / 9.793	- / 11.607	- / 12.140	- / 8.570	Continuing	Continuing

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0575 / Aviation Life Support Mods	Modification Number / Title: 1 / 003-19 Physiological Episodes

ID Code (A=Service Ready, B=Not Service Ready) : _____ **MDAP/MAIS Code:** _____

Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	93.759	2.416	1.143	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	97.318
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	93.759	2.416	1.143	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	97.318
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	93.759	2.416	1.143	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	97.318

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Enhanced Emergency Oxygen Systems (EEOS) upgrades incorporates Aircrew Oxygen System related modifications to all USN/USMC fixed wing aircraft. Oxygen systems include On-Board Oxygen Generation System (OBOGS), On-Board Inert Gas Generation System (OBIGS), regulators, Oxygen Storage Bottles, and Naval Aircrew Common Ejection Seats (NACES) kits.

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Exhibit P-3a, Individual Modification: PB 2024 Navy										Date: March 2023			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0575 / Aviation Life Support Mods						Modification Number / Title: 1 / 003-19 Physiological Episodes			
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: T-45 C, F/A-18 A, F/A-18 B, F/A-18 C, F/A-18 D, F/A-18 E/F, E/A-18 G				Modification Type: Performance Enhancement				Related RDT&E PEs: 0604264N					
Financial Plan	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
<i>Modification Item 1 of 1: 003-19 Physiological Episodes</i>													
B Kits													
Non-Recurring													
2.2.1) NACES F/A-18 (B Kits) - Organic	1,518 / 68.601	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1,518 / 68.601	
2.2.2) NACES T-45 (B Kits) - Organic	425 / 19.984	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	425 / 19.984	
<i>Subtotal: Non-Recurring</i>	- / 88.585	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 88.585	
<i>Subtotal: 003-19 Physiological Episodes</i>	1,943 / 88.585	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1,943 / 88.585	
<i>Subtotal: Procurement, All Modification Items</i>	- / 88.585	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 88.585	
Support (All Modification Items)													
3.1) ILS	- / 3.894	- / 1.971	- / 0.549	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 6.414	
3.2) Other Support	- / 1.280	- / 0.445	- / 0.594	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.319	
<i>Subtotal: Support</i>	- / 5.174	- / 2.416	- / 1.143	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 8.733	
Installation													
<i>Subtotal: Installation</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
Total													
Total Cost (Procurement + Support + Installation)	93.759	2.416	1.143	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	97.318	

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0575 / Aviation Life Support Mods	Modification Number / Title: 1 / 003-19 Physiological Episodes
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:
Modification Item 1 of 1: 003-19 Physiological Episodes		

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0575 / Aviation Life Support Mods	Modification Number / Title: 2 / 002-23 Enhanced Visual Acuity Mods

ID Code (A=Service Ready, B=Not Service Ready) : _____ **MDAP/MAIS Code:** _____

Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	0.000	0.000	0.000	0.000	0.000	0.000	6.093	6.107	6.440	6.570	61.354	86.564
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	0.000	0.000	0.000	0.000	0.000	0.000	6.093	6.107	6.440	6.570	61.354	86.564
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	0.000	0.000	0.000	0.000	0.000	0.000	6.093	6.107	6.440	6.570	61.354	86.564

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Enhanced Visual Acuity (EVA) is a digital replacement for the AN/AVS-9 Aviator Night Vision goggles for all USN/USMC Rotary Wing and Tilt Rotor Aircraft. The system will provide increased resolution under reduced light levels and serve as the display for aircraft Helmet Mounted Display (HMD) systems that will provide symbology for aircrew to conduct landings in degraded visual environments (DVE). APN-5 funding will be utilized for aircraft modifications required to provide electrical power and HMD symbology for the EVA system.

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy										Date: March 2023				
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0575 / Aviation Life Support Mods					Modification Number / Title: 2 / 002-23 Enhanced Visual Acuity Mods				
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:							
Models of Systems Affected: CH-53E/K, MH-53E, MH-60R, MH-60S, MV-22B				Modification Type: Performance Enhancement				Related RDT&E PEs: 0604264N						
Financial Plan	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total		
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)		
Procurement														
<i>Modification Item 1 of 1: 002-23 Enhanced Visual Acuity Mods</i>														
A Kits														
Recurring														
1.1.1) MH-60S Install (A-Kits) - NonOrganic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	438 / 8.700	438 / 8.700		
1.1.2) CH-53K Install (A-Kits) - NonOrganic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	40 / 0.660	- / -	- / -	232 / 4.259	272 / 4.919		
1.1.3) CH-53E Install (A-Kits) - NonOrganic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	16 / 0.360	16 / 0.360		
1.1.4) MH-60R Install (A-Kits) - NonOrganic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	436 / 8.820	436 / 8.820		
1.1.5) MV-22B Install (A-Kits) - NonOrganic	- / -	- / -	- / -	- / -	- / -	- / -	44 / 1.100	52 / 0.936	44 / 1.100	50 / 1.250	368 / 6.293	558 / 10.679		
<i>Subtotal: Recurring</i>	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / 1.100	- / 1.596	- / 1.100	- / 1.250	- / 28.432	- / 33.478		
Non-Recurring														
1.2.1) Integration NRE - Organic	- / -	- / -	- / -	- / -	- / -	- / -	- / 4.320	- / 3.806	- / 4.590	- / 4.500	- / 25.367	- / 42.583		
<i>Subtotal: Non-Recurring</i>	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / 4.320	- / 3.806	- / 4.590	- / 4.500	- / 25.367	- / 42.583		
<i>Subtotal: 002-23 Enhanced Visual Acuity Mods</i>	- / -	- / -	- / -	- / -	- / -	- / -	44 / 5.420	92 / 5.402	44 / 5.690	50 / 5.750	1,490 / 53.799	1,720 / 76.061		
<i>Subtotal: Procurement, All Modification Items</i>	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / 5.420	- / 5.402	- / 5.690	- / 5.750	- / 53.799	- / 76.061		
Support (All Modification Items)														
3.2) Data	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.013	- / 0.019	- / 0.022	- / 0.025	- / -	- / 0.079		
3.3) Training Equipment	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.111	- / 0.111		
3.6) Other Support	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.260	- / 0.276	- / 0.298	- / 0.335	- / 2.716	- / 3.885		
<i>Subtotal: Support</i>	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / 0.273	- / 0.295	- / 0.320	- / 0.360	- / 2.827	- / 4.075		
Installation														
<i>Modification Item 1 of 1: 002-23 Enhanced Visual Acuity Mods</i>	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.400	- / 0.410	- / 0.430	- / 0.460	- / 4.728	- / 6.428		
<i>Subtotal: Installation</i>	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / 0.400	- / 0.410	- / 0.430	- / 0.460	- / 4.728	- / 6.428		
Total														
Total Cost (Procurement + Support + Installation)	0.000	0.000	0.000	0.000	0.000	0.000	6.093	6.107	6.440	6.570	61.354	86.564		

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0575 / Aviation Life Support Mods	Modification Number / Title: 2 / 002-23 Enhanced Visual Acuity Mods

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Modification Item 1 of 1: 002-23 Enhanced Visual Acuity Mods

Manufacturer Information

Manufacturer Name: TBD	Manufacturer Location: TBD
Administrative Leadtime (in Months): 3	Production Leadtime (in Months): 6

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates			Jan 2024	Jan 2025	Jan 2026	Jan 2027	
Delivery Dates			Jun 2024	Jun 2025	Jun 2026	Jun 2027	

Installation Information

Method of Implementation: Contractor Field Team:: Installation Name: Enhanced Visual Acuity

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	21 / 0.400	23 / 0.000	- / -	- / -	0 / 0.000	44 / 0.400
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	28 / 0.410	24 / 0.000	- / -	40 / 0.060	92 / 0.470
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	20 / 0.430	- / -	24 / 0.000	44 / 0.430
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	24 / 0.460	26 / 0.000	50 / 0.460
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1,490 / 4.668	1,490 / 4.668
Total	- / -	- / -	- / -	- / -	- / -	- / -	21 / 0.400	51 / 0.410	44 / 0.430	24 / 0.460	1,580 / 4.728	1,720 / 6.428

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9	12	12	11	14	14	12	12	10	10	-	-	12	12	1,580	1,720
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9	12	12	11	14	14	12	12	-	-	-	-	1,624	1,720

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0575 / Aviation Life Support Mods	Modification Number / Title: 3 / 005-25 IJHMCS

ID Code (A=Service Ready, B=Not Service Ready) : _____ **MDAP/MAIS Code:** _____

Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	0.000	0.000	0.000	0.000	0.000	0.000	3.700	5.500	5.700	2.000	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	0.000	0.000	0.000	0.000	0.000	0.000	3.700	5.500	5.700	2.000	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	0.000	0.000	0.000	0.000	0.000	0.000	3.700	5.500	5.700	2.000	Continuing	Continuing

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Procurement of aircraft modification kits and installation to support integration of the upgraded helmet mounted solution for the F/A-18 E/F and EA-18G aircraft for the Improved Joint Helmet Mounted Cueing System (IJHMCS).

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Exhibit P-3a, Individual Modification: PB 2024 Navy										Date: March 2023			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0575 / Aviation Life Support Mods					Modification Number / Title: 3 / 005-25 IJHMCS			
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: F/A-18 E/F, EA-18G				Modification Type: Performance Enhancement				Related RDT&E PEs: 0604264N					
Financial Plan	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
<i>Modification Item 1 of 1: 005-25 IJHMCS</i>													
A Kits													
Recurring													
1.1.1) F/A 18 E/F & EA-18G - NonOrganic	- / -	- / -	- / -	- / -	- / -	- / -	114 / 1.310	190 / 2.190	188 / 2.250	74 / 0.750	Continuing	Continuing	
<i>Subtotal: Recurring</i>	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / 1.310	- / 2.190	- / 2.250	- / 0.750	Continuing	Continuing	
Non-Recurring													
1.2.1) Integration - Organic	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.180	- / 1.790	- / 1.890	- / 0.620	- / -	- / 15.480	
<i>Subtotal: Non-Recurring</i>	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / 1.180	- / 1.790	- / 1.890	- / 0.620	- / 0.000	- / 15.480	
<i>Subtotal: 005-25 IJHMCS</i>	- / -	- / -	- / -	- / -	- / -	- / -	114 / 2.490	190 / 3.980	188 / 4.140	74 / 1.370	Continuing	Continuing	
<i>Subtotal: Procurement, All Modification Items</i>	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / 2.490	- / 3.980	- / 4.140	- / 1.370	Continuing	Continuing	
Support (All Modification Items)													
3.1) Other Support	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.263	- / 0.272	- / 0.301	- / 0.133	- / -	- / 0.969	
3.2) Data	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.006	- / 0.013	- / 0.019	- / 0.012	- / -	- / 0.050	
3.3) Training Equipment	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.200	- / -	- / -	- / -	- / -	- / 0.200	
<i>Subtotal: Support</i>	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / 0.469	- / 0.285	- / 0.320	- / 0.145	- / 0.000	- / 1.219	
Installation													
<i>Modification Item 1 of 1: 005-25 IJHMCS</i>	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.741	- / 1.235	- / 1.240	- / 0.485	- / 0.000	- / 3.701	
<i>Subtotal: Installation</i>	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / 0.741	- / 1.235	- / 1.240	- / 0.485	- / 0.000	- / 3.701	
Total													
Total Cost (Procurement + Support + Installation)	0.000	0.000	0.000	0.000	0.000	0.000	3.700	5.500	5.700	2.000	Continuing	Continuing	

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy **Date:** March 2023

Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0575 / Aviation Life Support Mods	Modification Number / Title: 3 / 005-25 IJHMCS
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ID Code (A=Service Ready, B=Not Service Ready) : **MDAP/MAIS Code:**

Modification Item 1 of 1: 005-25 IJHMCS

Manufacturer Information

Manufacturer Name: TBD	Manufacturer Location: TBD
Administrative Leadtime (in Months): 0	Production Leadtime (in Months): 12

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates				Apr 2025	Jan 2026	Jan 2027	Jan 2028
Delivery Dates				Apr 2026	Jan 2027	Jan 2028	Jan 2029

Installation Information

Method of Implementation: Method:: Installation Name: Installation Group Name

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	114 / 0.741	- / -	- / -	- / -	0 / 0.000	114 / 0.741
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	190 / 1.235	- / -	- / -	0 / 0.000	190 / 1.235
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	188 / 1.240	- / -	0 / 0.000	188 / 1.240
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	74 / 0.485	0 / 0.000	74 / 0.485
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	- / -	- / -	- / -	114 / 0.741	190 / 1.235	188 / 1.240	74 / 0.485	0 / 0.000	566 / 3.701

Installation Schedule

PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot				
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4						
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	114	-	-	-	190	-	-	-	-	-	188	-	-	-	74	-	-	-	-	-
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	38	38	38	48	48	48	46	47	47	47	121	566				

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Exhibit P-3a, Individual Modification: PB 2024 Navy **Date:** March 2023

Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0575 / Aviation Life Support Mods	Modification Number / Title: 4 / Inactive OSIPs
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ID Code (A=Service Ready, B=Not Service Ready) : **MDAP/MAIS Code:**

Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	27.568	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	27.568
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	27.568	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	27.568
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	27.568	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	27.568

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Inactive OSIPs prior year totals.

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Exhibit P-3a, Individual Modification: PB 2024 Navy **Date:** March 2023

Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0575 / Aviation Life Support Mods	Modification Number / Title: 4 / Inactive OSIPs
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ID Code (A=Service Ready, B=Not Service Ready) : **MDAP/MAIS Code:**

Models of Systems Affected: N/A **Modification Type:** N/A **Related RDT&E PEs:**

Financial Plan <small>(*) Indicates the modification is being installed organically and no installation funds are required.</small>	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>
Procurement												
1.2.1) Inactive OSIPs - Organic ^(*)	- / 27.568	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 27.568
<i>Subtotal: Procurement</i>	- / 27.568	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 27.568
Installation												
<i>Subtotal: Installation</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total												
Total Cost (Procurement + Support + Installation)	27.568	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	27.568

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Exhibit P-40, Budget Line Item Justification: PB 2024 Navy **Date:** March 2023

Appropriation / Budget Activity / Budget Sub Activity: 1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft	P-1 Line Item Number / Title: 0576 / Common ECM Equipment
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: 0604270N, 0604272N, 0204162N, 0206138M
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Line Item MDAP/MAIS Code: 000

Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	3,122.975	118.071	118.122	53.614	0.000	53.614	82.909	99.332	113.292	119.800	1,990.443	5,818.558
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	3,122.975	118.071	118.122	53.614	0.000	53.614	82.909	99.332	113.292	119.800	1,990.443	5,818.558
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	3,122.975	118.071	118.122	53.614	0.000	53.614	82.909	99.332	113.292	119.800	1,990.443	5,818.558

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

This line item funds Common Electronic Countermeasures (ECM) equipment for strike and assault aircraft. The overall goal of the modification budget is to provide a reprogrammable radar and missile warning system, provide attacking missile declaration, sector direction finding, laser detection, and self-protection capability devices to applicable user aircraft. It will also provide for the integration of hardware/software solutions that link on-board integrated Aircraft Survivability Equipment (iASE) that are compatible with mission planning information.

OSIP 014-90 AN/APR-39(V)2 Radar Warning Receiver (RWR): The AN/APR-39A/B/C/D (V) 2 Radar Signal Detecting Set is designed for United States Marine Corps (USMC), United States Navy (USN), United States Air Force (USAF), and United States Army (US Army) Assault Support aircraft to provide onboard situational awareness and warning of radar threats. This budget supports integration, validation/ verification and procurement of the upgraded APR-39 system (APR-39D(V)2).

OSIP 006-00 ALE-39 to ALE-47 Retrofit: This OSIP provides funding to correct serious safety problems and greatly improves aircraft survivability. Operational Program Improvement associated with commonality of expendable form factors across DoD and Joint Partners is focus for Common Carriage Program providing an increase in expendable capacity and operational readiness while reducing logistics footprint. This budget supports procurement of ALE-47 Common Carriage systems.

OSIP 005-08 Direct Infrared Countermeasure (DIRCM) / Department of Navy Large Aircraft Infrared Countermeasure (DoN LAIRCM) AN/AAQ-24: This OSIP provides improved aircraft survivability technology to United States Marine Corps and United States Navy aircraft. This budget supports procurement, Nonrecurring Engineering, Engineering Change Proposals (ECPs), integration, validation, Follow-on Test and Evaluation (FOT&E) and fielding of DoN LAIRCM systems on CH-53E/K, MV-22, KC-130J, P-8A, C-40, and CMV-22 platforms.

OSIP 004-12 Common On-Board Jammer: Integrated Defensive Electronic Counter Measure (IDECM) Block 4 is an ECP to the ALQ-214 intended for operation on the F/A-18C/D aircraft, while retaining all IDECM suite functionality when installed on F/A-18E/F aircraft. The Electronic Frequency Converter (EFC) enables dataflow via the fiber optic cable to the Fiber Optic Towed Decoy (FOTD), and the Integrated Multi-Platform Launch Controller (IMPLC) which provides power and communications interface with the ALE-50, the ALE-55 and the Dual Band Decoy (DBD) and is part of the IB-4 configuration when installed on the F/A-18E/F aircraft. This OSIP is for the onboard portion of the IB-4 configuration for USMC F/A-18 C/D and USN F/A-18 E/F. This OSIP also includes procurement of hardware/software solutions that link on-board integrated Aircraft Survivability Equipment (iASE) that are compatible with mission planning information and systems intended to address current and future aircraft threats and modeling and simulation for improved countermeasure capabilities.

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Exhibit P-40, Budget Line Item Justification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft		P-1 Line Item Number / Title: 0576 / Common ECM Equipment
ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: 0604270N, 0604272N, 0204162N, 0206138M
Line Item MDAP/MAIS Code: 000		
OSIP 004-15 Assault Correction of Discrepancies: This OSIP has been deleted. Prior Year funding has been moved to Inactive OSIPS.		
OSIP 018-17 Distributed Aperture Infrared Countermeasures (DAIRCM): This OSIP provides support for the DAIRCM Joint Urgent Operational Needs Statement SO-0010 (JUONS) and DAIRCM Program Nonrecurring Engineering, Engineering Change Proposals (ECPs), integration, validation, Follow-on Test and Evaluation (FOT&E), fielding, support, procurement and Engineering Change Proposals (ECPs) for MH-60S, AH-1Z and UH-1Y platforms.		

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Exhibit P-40, Budget Line Item Justification: PB 2024 Navy **Date: March 2023**

Appropriation / Budget Activity / Budget Sub Activity:
1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft

P-1 Line Item Number / Title:
0576 / Common ECM Equipment

ID Code (A=Service Ready, B=Not Service Ready): A **Program Elements for Code B Items:** N/A **Other Related Program Elements:** 0604270N, 0604272N, 0204162N, 0206138M

Line Item MDAP/MAIS Code: 000

Exhibits Schedule					Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	1 / AN/APR-39 RWR (OSIP 014-90) (MISSION CAPABILITY)				- / 522.719	- / 31.181	- / 36.882	- / 9.337	- / 0.000	- / 9.337
P-3a	2 / ALE-39 to ALE-47 RETROFIT / COMMON CARRIAGE (OSIP 006-00) (MISSION CAPABILITY)				- / 219.989	- / 0.849	- / 0.000	- / 0.000	- / 0.000	- / 0.000
P-3a	3 / DIRECTED INFRARED COUNTERMEASURE DoN LAIRCM / AAQ-24 (OSIP 005-08) (MISSION CAPABILITY)				- / 906.449	- / 61.470	- / 26.096	- / 12.213	- / 0.000	- / 12.213
P-3a	4 / COMMON ON-BOARD JAMMER (OBJ) (OSIP 004-12) (MISSION CAPABILITY)				- / 648.050	- / 22.565	- / 22.833	- / 30.564	- / 0.000	- / 30.564
P-3a	5 / DISTRIBUTED APERTURE INFRARED COUNTERMEASURES (DAIRCM) / AN/AAQ-45 (OSIP 018-17) (MISSION CAPABILITY)				- / 82.516	- / 2.006	- / 32.311	- / 1.500	- / 0.000	- / 1.500
P-3a	6 / INACTIVE OSIPs (TBD)				- / 743.252	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000
P-40	Total Gross/Weapon System Cost				- / 3,122.975	- / 118.071	- / 118.122	- / 53.614	- / 0.000	- / 53.614

Exhibits Schedule					FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	1 / AN/APR-39 RWR (OSIP 014-90) (MISSION CAPABILITY)				- / 7.971	- / 8.003	- / 7.887	- / 14.964	- / 515.316	- / 1,154.260
P-3a	2 / ALE-39 to ALE-47 RETROFIT / COMMON CARRIAGE (OSIP 006-00) (MISSION CAPABILITY)				- / 38.066	- / 46.561	- / 65.466	- / 53.256	- / 376.145	- / 800.332
P-3a	3 / DIRECTED INFRARED COUNTERMEASURE DoN LAIRCM / AAQ-24 (OSIP 005-08) (MISSION CAPABILITY)				- / 8.374	- / 14.931	- / 8.926	- / 14.291	- / 895.144	- / 1,947.894
P-3a	4 / COMMON ON-BOARD JAMMER (OBJ) (OSIP 004-12) (MISSION CAPABILITY)				- / 13.914	- / 6.906	- / 9.454	- / 3.247	- / 0.000	- / 757.533
P-3a	5 / DISTRIBUTED APERTURE INFRARED COUNTERMEASURES (DAIRCM) / AN/AAQ-45 (OSIP 018-17) (MISSION CAPABILITY)				- / 14.584	- / 22.931	- / 21.559	- / 34.042	- / 203.838	- / 415.287
P-3a	6 / INACTIVE OSIPs (TBD)				- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 743.252
P-40	Total Gross/Weapon System Cost				- / 82.909	- / 99.332	- / 113.292	- / 119.800	- / 1,990.443	- / 5,818.558

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

Justification:
The FY 2024 funding request is required for Common Electronic Countermeasures (ECM) equipment for strike and assault aircraft.

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Exhibit P-3a, Individual Modification: PB 2024 Navy **Date:** March 2023

Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0576 / Common ECM Equipment	Modification Number / Title: 1 / AN/APR-39 RWR (OSIP 014-90)
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ID Code (A=Service Ready, B=Not Service Ready) : **MDAP/MAIS Code:**

Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	522.719	31.181	36.882	9.337	0.000	9.337	7.971	8.003	7.887	14.964	515.316	1,154.260
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	522.719	31.181	36.882	9.337	0.000	9.337	7.971	8.003	7.887	14.964	515.316	1,154.260
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	522.719	31.181	36.882	9.337	0.000	9.337	7.971	8.003	7.887	14.964	515.316	1,154.260

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The AN/APR-39 family of systems Radar Signal Detecting Set (RSDS) is designed for United States Marine Corps (USMC), United States Navy (USN), United States Air Force (USAF) and United States Army (USA) Assault Support aircraft to provide onboard situational awareness and warning of radar Radio Frequency (RF) threats by Statement of Operational Requirements Document (ORD) number 545-88-00 dated 14 February 2000. The AN/APR-39 family of systems provides control and display of the AN/AAQ-24; AN/AAQ-45, AN/AAR-47, AN/AAR-59 and AN/AAR-61 Missile Warning Systems (MWS) and Chaff dispense commands to the AN/ALE-47 Countermeasures Dispenser System (CMDS). The AN/APR-39 consists of five antennas, one cockpit control unit, one processor, a display, and two, three, or four receivers (dependent on aircraft configuration). This OSIP supports Engineering Change Proposals (ECPs); hardware/software upgrades; Modernized Radar Warning Receiver (MRWR) and Radar Frequency Countermeasures (RFCM) upgrades and interface/integrations to include Integrated Aircraft Survivability Equipment (iASE). This program integrates hardware/software solutions that links onboard iASE with mission planning/ information systems. iASE includes Radio Frequency (RF), Infrared (IR), and Laser Warning sensors as well as CMDS and expendables. This program has the capability to store (RF) sensor data for post mission threat analysis. Updates required through the Future Year Defense Program (FYDP) for various platforms. The AN/APR-39D (V) 2 corrects deficiencies documented in the AN/APR-39 A/ B/C variants by providing correct Direction of Arrival (DOA) information, resolving time delayed detection and correct threat identification improving situational awareness to combat aircrews in a saturated RF environment. This program reconciles documented reliability and maintainability degrades that persist in legacy systems. The AN/APR-39 family of systems are installed on the following USMC and USN assault support aircraft: V-22, H-1, H-60, H-53 and C-130.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: The AN/APR-39 is in the production and sustainment phase (MSIII3Q/96). The Department of Navy is the lead service with Army interest. This budget supports integration, validation/verification and procurement of the upgraded APR-39 system (APR-39D (V)2).

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Exhibit P-3a, Individual Modification: PB 2024 Navy										Date: March 2023			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0576 / Common ECM Equipment					Modification Number / Title: 1 / AN/APR-39 RWR (OSIP 014-90)			
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: UH-1Y, AH-1Z, MV-22, CMV-22, KC-130T, CH-53E/K, MH-60S					Modification Type: MISSION CAPABILITY				Related RDT&E PEs:				
Financial Plan	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
<i>Modification Item 1 of 1: AN/APR-39 RWR (OSIP 014-90)</i>													
B Kits													
Recurring													
1.1.1) Install Equip AN/APR-39A/C/D(V)2- MV-22 - Organic ⁽¹⁾	71 / 67.083	10 / 10.548	13 / 19.265	1 / 1.615	- / -	1 / 1.615	1 / 1.647	1 / 1.680	1 / 1.588	4 / 5.934	232 / 336.400	334 / 445.760	
1.1.2) Install Equip AN/APR-39 D(V)2-H-1 - Organic ⁽²⁾	47 / 40.372	6 / 6.711	1 / 1.308	1 / 1.440	- / -	1 / 1.440	1 / 1.469	1 / 1.498	1 / 1.410	3 / 3.934	120 / 155.280	181 / 213.422	
1.1.3) Install Equip AN/APR-39 D(V)2 - CH-53E - Organic ⁽³⁾	3 / 3.303	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3 / 3.303	
1.1.4) Install Equipment Conversion B Kits - Organic	112 / 2.788	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	112 / 2.788	
1.1.5) Archived BKits Recurring - Organic - Organic	- / 159.624	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 159.624	
Subtotal: Recurring	- / 273.170	- / 17.259	- / 20.573	- / 3.055	- / -	- / 3.055	- / 3.116	- / 3.178	- / 2.998	- / 9.868	- / 491.680	- / 824.897	
Non-Recurring													
1.2.1) ECO - Organic	- / 26.556	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 26.556	
1.2.2) Archived BKits Non-Recurring - Organic	- / 28.945	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 28.945	
Subtotal: Non-Recurring	- / 55.501	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 55.501	
Subtotal: AN/APR-39 RWR (OSIP 014-90)	233 / 328.671	16 / 17.259	14 / 20.573	2 / 3.055	- / -	2 / 3.055	2 / 3.116	2 / 3.178	2 / 2.998	7 / 9.868	352 / 491.680	630 / 880.398	
Subtotal: Procurement, All Modification Items	- / 328.671	- / 17.259	- / 20.573	- / 3.055	- / -	- / 3.055	- / 3.116	- / 3.178	- / 2.998	- / 9.868	- / 491.680	- / 880.398	
Support (All Modification Items)													
2.1) D(V)2 System SW ⁽⁴⁾	- / 26.177	- / 6.872	- / 2.979	- / 2.275	- / -	- / 2.275	- / 0.921	- / 0.850	- / 0.865	- / 0.882	- / 8.994	- / 50.815	
2.2) C(V)2 System SW	- / 6.004	- / -	- / 0.339	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 6.343	
2.3) D(V)2 System ECP ⁽⁵⁾	- / 175.549	- / 3.261	- / 11.203	- / 2.530	- / -	- / 2.530	- / 3.018	- / 3.042	- / 3.112	- / 3.252	- / 17.984	- / 112.951	
2.4) Support/Training Equipment	- / 4.115	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 4.115	
2.5) Data	- / 1.024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.024	
2.6) ILS	- / 6.660	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 6.660	
2.7) Ground/Flight Test Support ⁽⁶⁾	- / 15.090	- / 3.361	- / 1.013	- / 0.880	- / -	- / 0.880	- / 0.612	- / 0.624	- / 0.597	- / 0.609	- / 2.998	- / 25.784	
2.8) Other Support ⁽⁷⁾	- / 159.429	- / 0.428	- / 0.775	- / 0.597	- / -	- / 0.597	- / 0.304	- / 0.309	- / 0.315	- / 0.353	- / 3.660	- / 66.170	
Subtotal: Support	- / 194.048	- / 13.922	- / 16.309	- / 6.282	- / -	- / 6.282	- / 4.855	- / 4.825	- / 4.889	- / 5.096	- / 23.636	- / 273.862	
Installation													
Subtotal: Installation	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	

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Exhibit P-3a, Individual Modification: PB 2024 Navy **Date:** March 2023

Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0576 / Common ECM Equipment	Modification Number / Title: 1 / AN/APR-39 RWR (OSIP 014-90)
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ID Code (A=Service Ready, B=Not Service Ready) : **MDAP/MAIS Code:**

Models of Systems Affected: UH-1Y, AH-1Z, MV-22, CMV-22, KC-130T, CH-53E/K, MH-60S **Modification Type:** MISSION CAPABILITY **Related RDT&E PEs:**

Financial Plan	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>
Total												
Total Cost (Procurement + Support + Installation)	522.719	31.181	36.882	9.337	0.000	9.337	7.971	8.003	7.887	14.964	515.316	1,154.260

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0576 / Common ECM Equipment	Modification Number / Title: 1 / AN/APR-39 RWR (OSIP 014-90)
ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:	
Modification Item 1 of 1: AN/APR-39 RWR (OSIP 014-90)		

Footnotes:

- (1) 1.1.1 APR-39 unit cost varies based on platform configuration (Weapons Replaceable Assembly (WRA) quantity) and combining procurements for other customers (Economies of Scale). Price difference between MV-22 and H-1 is because of two (2) additional receivers are required due to the size of the aircraft to support coverage.
- (2) 1.1.2 APR-39 unit cost varies based on platform configuration (Weapons Replaceable Assembly (WRA) quantity) and combining procurements for other customers (Economies of Scale). Price difference between MV-22 and H-1 is because of two (2) additional receivers are required due to the size of the aircraft to support coverage.
- (3) 1.1.3 FY23 through the FYDP AN/APR-39D(V)2 - CH-53E B kit line removed due to a Headquarters Marine Corps reprioritization.
- (4) 2.1 FY24 funding provided for Organic Software upgrades.
- (5) 2.3 FY24 funding to address expected obsolescence resolution for Signal Acquisition (SigAcq)/Quadrant Receiver Exciter (QRE) circuit cards (Chimera X) as well as Diminishing Manufacturing Sources and Material Shortages (DMSMS) and modifications to system components as required.
- (6) 2.7 FY24 continued support for platform ground/flight test for product improvements and software updates.
- (7) 2.8 FY24 other support required for field/technical support for the processor upgrade for APR-39.

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0576 / Common ECM Equipment	Modification Number / Title: 2 / ALE-39 to ALE-47 RETROFIT / COMMON CARRIAGE (OSIP 006-00)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	219.989	0.849	0.000	0.000	0.000	0.000	38.066	46.561	65.466	53.256	376.145	800.332
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	219.989	0.849	0.000	0.000	0.000	0.000	38.066	46.561	65.466	53.256	376.145	800.332
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	219.989	0.849	0.000	0.000	0.000	0.000	38.066	46.561	65.466	53.256	376.145	800.332

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The AN/ALE-47 upgrades will correct serious safety problems and greatly improve aircraft survivability.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: Operational Program Improvement associated with commonality of expendable form factors across DoD and Joint Partners is focus for Common Carriage Program providing an increase in expendable capacity and operational readiness while reducing logistics footprint.

Organic government Engineering Change Proposal (ECP) to upgrade both hardware and software of the AN/ALE-47 Countermeasures Dispenser System (CMDS) Programmer continues. The change will allow for one common Operational Flight Program (OFP) configuration with requirements derived from integrated Aircraft Survivability Equipment (iASE) initial capabilities document (ICD) in support of improved aircrew situational awareness and the baseline for interfacing with platform ASE sensors and Position, Navigation and Time (PNT) data. The ECP modification will take legacy systems and prime them to digitally interface with emerging aircraft networks, thus increasing platform survivability and battlespace awareness for own-ship, wingman, and Forward Operating Base (FOB) commands. The capability aligns with and supports Joint networked CONOPS for survivability and lethality.

The procurement and delivery of Power PC Circuit Card Assemblies continues to retrofit ALE-47 programmers on aircraft scheduled for incorporation but unable to get upgraded capability during production.

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0576 / Common ECM Equipment	Modification Number / Title: 2 / ALE-39 to ALE-47 RETROFIT / COMMON CARRIAGE (OSIP 006-00)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Models of Systems Affected: EA-6B, UH-1N, MH/CH-53E, F/A-18C/D/E/F, EA-18G, AV-8B, KC-130F/R/T, MH-60R/S, P-3, P-8, MV-22,CMV-22	Modification Type: MISSION CAPABILITY	Related RDT&E PEs: PE 0604270N
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Financial Plan <small>(* Indicates the modification is being installed organically and no installation funds are required.)</small>	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)

Procurement												
1.1.1) Archived AKits/Recurring - Organic ^(*)	2,539 / 20.679	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2,539 / 20.679
1.1.2) F/A-18 A-Kit - NonOrganic <i>Installation 1 of 4</i>	265 / 13.116	1 / 0.059	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	266 / 13.175
1.1.3) F/A-18 AKits: Common Carriage Sys Upgrade - Organic ^(*) (8)	- / -	- / -	- / -	- / -	- / -	- / -	72 / 2.674	72 / 2.728	72 / 2.782	72 / 2.838	464 / 64.024	752 / 75.046
1.1.4) MH-60 AKits: Common Carriage Sys Upgrade - Organic ^(*)	- / -	- / -	- / -	- / -	- / -	- / -	42 / 1.203	42 / 1.227	42 / 1.252	42 / 1.277	291 / 20.004	459 / 24.963
1.1.5) P-8 AKits: Common Carriage Sys Upgrade - NonOrganic (9) <i>Installation 2 of 4</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	16 / 1.386	16 / 1.413	16 / 1.441	76 / 6.982	124 / 11.222
2.1.5) P-8 BKits: Common Carriage Sys Upgrade - NonOrganic (10) <i>Installation 2 of 4</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	16 / 1.957	16 / 1.996	16 / 2.036	76 / 9.684	124 / 15.673
1.1.6) CMV-22 AKits: Common Carriage Sys Upgrade - NonOrganic ^(*) (11) <i>Installation 3 of 4</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4 / 0.346	24 / 2.120	20 / 1.802	- / -	48 / 4.268
2.1.6) CMV-22 BKits: Common Carriage Sys Upgrade - NonOrganic ^(*) (12) <i>Installation 3 of 4</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4 / 0.494	24 / 3.021	20 / 2.568	- / -	48 / 6.083
1.1.7) F/A-18 AKits: iASE Sys Upgrade - NonOrganic ^(*) (13) <i>Installation 4 of 4</i>	- / -	- / -	- / -	- / -	- / -	- / -	72 / 7.086	72 / 7.227	72 / 9.063	72 / 7.519	464 / 49.425	752 / 80.320
2.1.7) F/A-18 BKits: iASE Sys Upgrade - NonOrganic ^(*) (14) <i>Installation 4 of 4</i>	- / -	- / -	- / -	- / -	- / -	- / -	72 / 8.332	72 / 8.499	72 / 10.441	72 / 8.842	464 / 58.122	752 / 94.236
1.2.1) Archived AKits/Non-Recurring - Organic ^(*)	22 / 6.458	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	22 / 6.458
2.1.1) Archived BKits/Recurring - Organic ^(*)	6,120 / 74.298	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	6,120 / 74.298
2.1.2) F/A-18 B-Kits - Organic ^(*)	265 / 8.452	1 / 0.068	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	266 / 8.520
2.1.3) F/A-18 BKits: F/A-18 Common Carriage Sys Upgrade - Organic ^(*)	- / -	- / -	- / -	- / -	- / -	- / -	72 / 8.634	72 / 8.807	72 / 8.983	72 / 9.162	464 / 24.413	752 / 59.999
2.1.4) MH-60 BKits: Common Carriage Sys Upgrade - Organic ^(*)	- / -	- / -	- / -	- / -	- / -	- / -	42 / 2.518	42 / 2.569	42 / 2.620	42 / 2.672	291 / 11.442	459 / 21.821
2.1.8) Installment Equipment - Organic ^(*)	2,316 / 10.724	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2,316 / 10.724
Subtotal: Procurement	- / 133.727	- / 0.127	- / -	- / -	- / -	- / -	- / 30.447	- / 35.240	- / 43.691	- / 40.157	- / 244.096	- / 527.485

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0576 / Common ECM Equipment	Modification Number / Title: 2 / ALE-39 to ALE-47 RETROFIT / COMMON CARRIAGE (OSIP 006-00)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Models of Systems Affected: EA-6B, UH-1N, MH/CH-53E, F/A-18C/D/E/F, EA-18G, AV-8B, KC-130F/R/T, MH-60R/S, P-3, P-8, MV-22,CMV-22	Modification Type: MISSION CAPABILITY	Related RDT&E PEs: PE 0604270N
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Financial Plan <small>(* Indicates the modification is being installed organically and no installation funds are required.)</small>	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Support												
3.1) Archived Support Costs No Longer Funded In FYDP	- / 13.307	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 13.307
3.2) Common Carriage Other Support ⁽¹⁵⁾	- / 56.615	- / 0.565	- / -	- / -	- / -	- / -	- / 3.005	- / 3.077	- / 4.026	- / 2.976	- / 18.427	- / 88.691
3.3) Common Carriage O-Level Support Equipment ⁽¹⁶⁾	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.994	- / 1.806	- / 2.718	- / 1.131	- / 3.859	- / 11.508
3.4) Common Carriage I-Level Support Equipment ⁽¹⁷⁾	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.769	- / -	- / -	- / -	- / 0.769
3.5) iASE Other Support	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.087	- / 0.965	- / 1.975	- / 1.773	- / 11.492	- / 17.292
3.6) iASE Support Equipment ⁽¹⁸⁾	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.533	- / 1.094	- / 2.286	- / 1.030	- / 6.651	- / 12.594
Subtotal: Support	- / 69.922	- / 0.565	- / -	- / -	- / -	- / -	- / 7.619	- / 7.711	- / 11.005	- / 6.910	- / 40.429	- / 144.161
Installation												
Installation 1 of 4: GRP: F/A-18C/D Installation Schedule	- / 16.340	- / 0.157	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 16.497
Installation 2 of 4: GRP: P-8 Installation Schedule	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.980	- / 2.016	- / 12.123	- / 16.119
Installation 3 of 4: GRP: CMV-22 Installation Schedule	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.330	- / 2.016	- / 1.710	- / 4.056
Installation 4 of 4: GRP: F/A-18 iASE Installation Schedule	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 3.610	- / 8.460	- / 2.157	- / 77.787	- / 92.014
Subtotal: Installation	- / 16.340	- / 0.157	- / -	- / -	- / -	- / -	- / -	- / 3.610	- / 10.770	- / 6.189	- / 91.620	- / 128.686
Total												
Total Cost (Procurement + Support + Installation)	219.989	0.849	0.000	0.000	0.000	0.000	38.066	46.561	65.466	53.256	376.145	800.332

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0576 / Common ECM Equipment	Modification Number / Title: 2 / ALE-39 to ALE-47 RETROFIT / COMMON CARRIAGE (OSIP 006-00)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Installation 1 of 4: GRP: F/A-18C/D Installation Schedule

Manufacturer Information

Manufacturer Name: Organic Installs 1	Manufacturer Location: Various
Administrative Leadtime (in Months): 3	Production Leadtime (in Months): 2

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates	Dec 2021						
Delivery Dates	Feb 2022						

Installation Information

Method of Implementation: Depot Level Installation:: Installation Name: F/A-18C/D Installation Schedule

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	265 / 16.340	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	265 / 16.340
FY 2022	- / -	1 / 0.157	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	1 / 0.157
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	265 / 16.340	1 / 0.157	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	266 / 16.497

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	265	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Out	265	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0576 / Common ECM Equipment	Modification Number / Title: 2 / ALE-39 to ALE-47 RETROFIT / COMMON CARRIAGE (OSIP 006-00)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Installation 2 of 4: GRP: P-8 Installation Schedule

Manufacturer Information

Manufacturer Name: TBD	Manufacturer Location: TBD
Administrative Leadtime (in Months): 0	Production Leadtime (in Months): 0

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates							
Delivery Dates						Oct 2026	Oct 2027

Installation Information

Method of Implementation: Depot Level Installation:: Installation Name: P-8 Installation Schedule

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	32 / 1.980	- / -	0 / 0.000	32 / 1.980
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	32 / 2.016	0 / 0.000	32 / 2.016
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	32 / 2.053	32 / 2.053
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	152 / 10.070	152 / 10.070
Total	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	32 / 1.980	32 / 2.016	184 / 12.123	248 / 16.119

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8	8	8	8	8	8	8	8	184	248
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8	8	8	8	8	8	8	8	184	248

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0576 / Common ECM Equipment	Modification Number / Title: 2 / ALE-39 to ALE-47 RETROFIT / COMMON CARRIAGE (OSIP 006-00)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Installation 3 of 4: GRP: CMV-22 Installation Schedule

Manufacturer Information

Manufacturer Name: TBD	Manufacturer Location: TBD
Administrative Leadtime (in Months): 0	Production Leadtime (in Months): 0

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates							
Delivery Dates						Oct 2026	Oct 2027

Installation Information

Method of Implementation: Depot Level Installation:: Installation Name: CMV-22 Installation Schedule

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	8 / 0.330	- / -	0 / 0.000	8 / 0.330
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	48 / 2.016	0 / 0.000	48 / 2.016
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	40 / 1.710	40 / 1.710
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	8 / 0.330	48 / 2.016	40 / 1.710	96 / 4.056

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	2	2	2	12	12	12	12	40	96
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	2	2	2	12	12	12	12	40	96

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0576 / Common ECM Equipment	Modification Number / Title: 2 / ALE-39 to ALE-47 RETROFIT / COMMON CARRIAGE (OSIP 006-00)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Installation 4 of 4: GRP: F/A-18 iASE Installation Schedule

Manufacturer Information

Manufacturer Name: TBD	Manufacturer Location: TBD
Administrative Leadtime (in Months): 0	Production Leadtime (in Months): 0

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates							
Delivery Dates					Oct 2025	Oct 2026	Oct 2027

Installation Information

Method of Implementation: Depot Level Installation:: Installation Name: F/A-18 iASE Installation Schedule

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	72 / 3.610	72 / 4.230	- / -	0 / 0.000	144 / 7.840
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	72 / 4.230	36 / 2.157	36 / 2.157	144 / 8.544
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	144 / 8.801	144 / 8.801
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	144 / 8.977	144 / 8.977
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	928 / 57.852	928 / 57.852
Total	- / -	- / -	- / -	- / -	- / -	- / -	- / -	72 / 3.610	144 / 8.460	36 / 2.157	1,252 / 77.787	1,504 / 92.014

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	18	18	18	18	36	36	36	36	18	18	-	-	1,252	1,504
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	18	18	18	18	36	36	36	36	18	18	-	-	1,252	1,504

Footnotes:
⁽⁸⁾ 1.1.3 F/A-18 A-Kits are as follows: F/A-18E (QTY 306), F/A-18F (QTY 284), and EA-18G (QTY 162).
⁽⁹⁾ 1.1.5 Procurement costs and installation schedule added in FY26 through FY28 in support of the P-8 Common Carriage Program. P-8 total procurement quantities consist of 124 A-kits and 124 B-kits. Each install consists of one (1) A-kit and one (1) B-kit, totaling 248 kits. Installations based on aircraft availability.

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0576 / Common ECM Equipment	Modification Number / Title: 2 / ALE-39 to ALE-47 RETROFIT / COMMON CARRIAGE (OSIP 006-00)
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:
<p>(10) 2.1.5 Procurement costs and installation schedule added in FY26 through FY28 in support of the P-8 Common Carriage Program. P-8 total procurement quantities consist of 124 A-kits and 124 B-kits. Each install consists of one (1) A-kit and one (1) B-kit, totaling 248 kits. Installations based on aircraft availability.</p> <p>(11) 1.1.6 Procurement costs and installation schedule added in FY26 through FY28 in support of the CMV-22 Common Carriage Program. CMV-22 total procurement quantities consist of 48 A-kits and 48 B-kits. Each install consists of one (1) A-kit and one (1) B-kit, totaling 96 kits. Installations based on aircraft availability.</p> <p>(12) 2.1.6 Procurement costs and installation schedule added in FY26 through FY28 in support of the CMV-22 Common Carriage Program. CMV-22 total procurement quantities consist of 48 A-kits and 48 B-kits. Each install consists of one (1) A-kit and one (1) B-kit, totaling 96 kits. Installations based on aircraft availability.</p> <p>(13) 1.1.7 Procurement costs and installation schedule added in FY25 through FY28 in support of the F/A-18 Common Carriage Multi-Layered Obstructed Brokered Hub (MOB Hub) and integrated Aircraft Survivability Equipment (iASE) program. F/A-18 total procurement quantities consist of 752 A-kits and 752 B-kits. Each install consists of one (1) A-kit and one (1) B-kit, totaling 1,504 kits. FY26 installs for 36 aircraft. FY27 installs for 72 aircraft. Installations based on aircraft availability.</p> <p>(14) 2.1.7 Procurement costs and installation schedule added in FY25 through FY28 in support of the F/A-18 Common Carriage Multi-Layered Obstructed Brokered Hub (MOB Hub) and integrated Aircraft Survivability Equipment (iASE) program. F/A-18 total procurement quantities consist of 752 A-kits and 752 B-kits. Each install consists of one (1) A-kit and one (1) B-kit, totaling 1,504 kits. FY26 installs for 36 aircraft. FY27 installs for 72 aircraft. Installations based on aircraft availability.</p> <p>(15) 3.2 FY25-FY28 funding for project management, engineering and logistics support, and oversight for production procurement packages.</p> <p>(16) 3.3 FY25-FY28 Common Carriage O-Level Support Equipment based on QTY of installs per year.</p> <p>(17) 3.5 FY26 procurement to support FY27 I-level standup.</p> <p>(18) 3.6 FY25-FY28 funds provided for F/A-18 Common Carriage Multi-Layered Obstructed Brokered Hub (MOB Hub) and integrated Aircraft Survivability Equipment (iASE).</p>		

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0576 / Common ECM Equipment	Modification Number / Title: 3 / DIRECTED INFRARED COUNTERMEASURE DoN LAIRCM / AAQ-24 (OSIP 005-08)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	906.449	61.470	26.096	12.213	0.000	12.213	8.374	14.931	8.926	14.291	895.144	1,947.894
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	906.449	61.470	26.096	12.213	0.000	12.213	8.374	14.931	8.926	14.291	895.144	1,947.894
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	906.449	61.470	26.096	12.213	0.000	12.213	8.374	14.931	8.926	14.291	895.144	1,947.894

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The AN/AAQ-24 Department of the Navy, Large Aircraft Infrared Countermeasures (DoN LAIRCM) System (B-kit) configurations include one (1) processor, two (2) Guardian Laser Tracker Assemblies (GLTA), one (1) Cockpit Indicator Unit (CIU), Replacement (CIUR), and four to six (4-6) IR sensors. The Validated Online Life-cycle Threat (VOLT) Report produced by Department of Defense Intelligence and current United States Marine Corps (USMC) CONOPS pose surface to air weapons as the most critical threat to assault operations. DoN LAIRCM capabilities enhance aircrew/aircraft survivability against improved Man-Portable Air Defense Systems (MANPADS), Rocket Propelled Grenades (RPG), hostile gunfire, Anti-Aircraft Artillery (AAA) and laser-directed weapons. This budget supports procurement, Engineering Change Proposals (ECPs), integration, validation, Follow-on Test and Evaluation (FOT&E) and fielding of DoN LAIRCM systems on CH-53E/K, MV-22, KC-130J, P-8A, C-40, and CMV-22 platforms in accordance with Statement of Operational Requirement Document (ORD) number 756-88-08. The DoN LAIRCM is a critical component of the Integrated ASE (iASE) suite. The iASE suite combines Radio Frequency (RF), Infrared (IR), and Laser Warning Sensors, Countermeasures Dispenser Systems (CMDS) and expendables with platform mission planning systems to provide enhanced aircraft protection enabling mission success.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

DoN LAIRCM program achieved MS C/ Full Rate Production in January 2010. The Advanced Threat Warning (ATW) Engineering Change Proposals (ECP) began in 2011 to mitigate system shortfalls and to improve Missile Warning Probability of detection (Pd), reduce False Alarm Rate (FAR), and to add Hostile Fire Indication (HFI) and Laser Warning (LW) and Smart Countermeasures Dispensing. The DoN LAIRCM program began procuring the CIUR in FY22 to replace the CIU via ECP beginning FY23. The DoN LAIRCM Processor Upgrade (DLPU) will replace the Back End Processor, update the system software, and retrofit the CIU, Sensors, and GLTAs for horizontal compatibility.

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0576 / Common ECM Equipment	Modification Number / Title: 3 / DIRECTED INFRARED COUNTERMEASURE DoN LAIRCM / AAQ-24 (OSIP 005-08)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Models of Systems Affected: CH-53E/ K,MV-22,KC-130J,P-8A,C-40 and CMV-22	Modification Type: MISSION CAPABILITY	Related RDT&E PEs:
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Financial Plan	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)

Procurement												
<i>Modification Item 1 of 1:</i> DIRECTED INFRARED COUNTERMEASURE DoN LAIRCM /AAQ-24 (OSIP 005-08)												
B Kits												
Recurring												
1.1.1) Archived B Kits - Organic	224 / 281.373	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	224 / 281.373
1.1.2) DoN LAIRCM (B Kits) MV-22 - Organic ⁽¹⁹⁾	94 / 211.045	2 / 5.065	- / -	- / -	- / -	- / -	- / -	2 / 4.600	- / -	- / -	210 / 746.970	308 / 967.680
1.1.3) OCO DoN LAIRCM (B Kits) MV-22 - Organic	14 / 36.476	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	14 / 36.476
1.1.4) DoN LAIRCM (B Kits) KC-130J - Organic	39 / 85.758	2 / 4.609	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	34 / 115.872	75 / 206.239
1.1.5) P31/DLPU Retrofit - Organic ⁽²⁰⁾	18 / 9.162	77 / 19.621	28 / 14.828	6 / 3.029	- / -	6 / 3.029	3 / 1.555	3 / 1.576	2 / 1.299	11 / 5.780	27 / 15.741	175 / 72.591
1.1.6) CIUR Retrofit - Organic ⁽²¹⁾	- / -	71 / 3.792	28 / 1.250	6 / 0.282	- / -	6 / 0.282	2 / 0.096	3 / 0.147	2 / 0.100	10 / 0.509	39 / 1.627	161 / 7.803
Subtotal: Recurring	- / 623.814	- / 33.087	- / 16.078	- / 3.311	- / -	- / 3.311	- / 1.651	- / 6.323	- / 1.399	- / 6.289	- / 880.210	- / 1,572.162
Non-Recurring												
1.2.1) A/C Integration - Organic ⁽²²⁾	- / 144.166	- / 6.856	- / 2.014	- / 1.962	- / -	- / 1.962	- / 0.130	- / 0.100	- / 0.193	- / 0.250	- / -	- / 55.671
1.2.2) Navy Test - Organic ⁽²³⁾	- / 125.184	- / 5.747	- / 1.443	- / 2.990	- / -	- / 2.990	- / 1.690	- / 1.660	- / 1.540	- / 2.980	- / -	- / 143.234
1.2.3) OCO Navy Test - Organic	- / 12.231	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 12.231
1.2.4) ECP Hardware/Software - Organic ⁽²⁴⁾	- / -	- / 3.833	- / 1.454	- / 0.817	- / -	- / 0.817	- / 2.058	- / 2.164	- / 1.320	- / 2.066	- / -	- / 13.712
Subtotal: Non-Recurring	- / 71.581	- / 16.436	- / 4.911	- / 5.769	- / -	- / 5.769	- / 3.878	- / 3.924	- / 3.053	- / 5.296	- / 0.000	- / 114.848
Subtotal: DIRECTED INFRARED COUNTERMEASURE DoN LAIRCM /AAQ-24 (OSIP 005-08)	389 / 695.395	152 / 49.523	56 / 20.989	12 / 9.080	- / -	12 / 9.080	5 / 5.529	8 / 10.247	4 / 4.452	21 / 11.585	310 / 880.210	957 / 1,687.010
Subtotal: Procurement, All Modification Items	- / 695.395	- / 49.523	- / 20.989	- / 9.080	- / -	- / 9.080	- / 5.529	- / 10.247	- / 4.452	- / 11.585	- / 880.210	- / 1,687.010

Support (All Modification Items)												
2.1) Software Upgrade ⁽²⁵⁾	- / 10.050	- / 7.682	- / 2.286	- / -	- / -	- / -	- / -	- / 2.300	- / 2.055	- / -	- / -	- / 24.373
2.2) OCO Support Equipment	- / 0.670	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.670
2.3) Support Equipment	- / -	- / 0.060	- / 0.132	- / 0.196	- / -	- / 0.196	- / -	- / -	- / -	- / -	- / -	- / 0.388
2.4) ILS ⁽²⁶⁾	- / 19.271	- / 0.030	- / 0.066	- / 0.067	- / -	- / 0.067	- / 0.069	- / 0.070	- / 0.071	- / 0.073	- / 0.734	- / 20.451
2.5) OCO Other Support	- / 3.435	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 3.435

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0576 / Common ECM Equipment	Modification Number / Title: 3 / DIRECTED INFRARED COUNTERMEASURE DoN LAIRCM / AAQ-24 (OSIP 005-08)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Models of Systems Affected: CH-53E/ K,MV-22,KC-130J,P-8A,C-40 and CMV-22	Modification Type: MISSION CAPABILITY	Related RDT&E PEs:
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Financial Plan	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
2.6) Other Support ⁽²⁷⁾	- / 111.377	- / 4.175	- / 2.623	- / 2.870	- / -	- / 2.870	- / 2.776	- / 2.314	- / 2.348	- / 2.633	- / 14.200	- / 145.316
2.7) Archived Support Cost No Longer Funded in FYDP	- / 66.251	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 66.251
Subtotal: Support	- / 211.054	- / 11.947	- / 5.107	- / 3.133	- / -	- / 3.133	- / 2.845	- / 4.684	- / 4.474	- / 2.706	- / 14.934	- / 260.884
Installation												
Subtotal: Installation	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total												
Total Cost (Procurement + Support + Installation)	906.449	61.470	26.096	12.213	0.000	12.213	8.374	14.931	8.926	14.291	895.144	1,947.894

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0576 / Common ECM Equipment	Modification Number / Title: 3 / DIRECTED INFRARED COUNTERMEASURE DoN LAIRCM / AAQ-24 (OSIP 005-08)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Modification Item 1 of 1: DIRECTED INFRARED COUNTERMEASURE DoN LAIRCM /AAQ-24 (OSIP 005-08)

Footnotes:

- (19) 1.1.2 FY23 through FY28 reflects decreased B-Kit procurement quantity to prioritize program requirements due to funds availability.
- (20) 1.1.5 Pre-Planned Product Improvement (P3I) will support retrofit of legacy System Processor with DoN LAIRCM Processor Upgrade (DLPU). The Retrofit Kit includes a new processor and conversion of Guardian Laser Transmitter Assemblies (GLTA) and Missile Warning System (MWS) sensors necessary for configuration compatibility. DoN LAIRCM began to procure DLPU processors in FY22 due to 2 year lead time for conversion; retrofit via ECP will begin in FY24.
- (21) 1.1.6 DoN LAIRCM began replacing the Cockpit Indicator Unit (CIU) with Cockpit Indicator Unit Replacement (CIUR) Retrofit starting in FY22. CIUR Retrofit kits were not required in FY23 due to delays in platform installation schedules.
- (22) 1.2.1 FY24 supports DLPU integration into Systems Integration Lab (SIL).
- (23) 1.2.2 FY24 increase for Critical Defect Package (CDP)-22 software testing.
- (24) 1.2.4 FY24 Funding for DoN LAIRCM processor upgrade (DLPU) ECP to ensure horizontal compatibility. FY25-FY28 funding required to keep pace with current threat in support of seven (7) Navy and Marine Corps T/M/S aircraft.
- (25) 2.1 FY24-FY28 future software efforts moved to ECP Line (1.2.4).
- (26) 2.4 FY24 funding required for integrated logistics support for the processor upgrade for DLPU and CIUR.
- (27) 2.6 FY24 funding required for field/technical support for the processor upgrade for DLPU and system WRAs (ATW sensors, GLTA).

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0576 / Common ECM Equipment	Modification Number / Title: 4 / COMMON ON-BOARD JAMMER (OBJ) (OSIP 004-12)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	648.050	22.565	22.833	30.564	0.000	30.564	13.914	6.906	9.454	3.247	0.000	757.533
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	648.050	22.565	22.833	30.564	0.000	30.564	13.914	6.906	9.454	3.247	0.000	757.533
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	648.050	22.565	22.833	30.564	0.000	30.564	13.914	6.906	9.454	3.247	0.000	757.533

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Integrated Defensive Electronic Countermeasure (IDECM) Block (IB-4) is an Engineering Change Proposal (ECP) to the ALQ-214 intended for operation on the F/A-18C/D aircraft equipped with ALR-67(V)2 or ALR-67(V)3 Radar Warning Receivers, while retaining all IDECM suite functionality when installed on F/A-18E/F aircraft. This ECP will result in a Common On-Board Jammer (COBJ) system that must meet the requirements of the COBJ Block 2 Operational Requirements Document (ORD) #624-78-03 and be compatible with the ALE-55 Fiber Optic Towed Decoy (FOTD) and Dual Band Decoy (DBD). The Integrated Multi-Platform Launch Controller (IMPLC) provides power and communications interface with the ALE-50 and ALE-55 components of the IDECM EW Suite on the F/A-18 E/F aircraft. The Electronic Frequency Converter (EFC) enables data flow via the fiber optic cable to the FOTD and is part of the IB-4 configuration when installed on the F/A-18E/F aircraft. This Operational Safety Improvement Program (OSIP) is for the onboard portion of the IB-4 configuration. This OSIP also includes procurement of hardware/software solutions that link on-board integrated Aircraft Survivability Equipment (iASE) that are compatible with mission planning information and systems intended to address current and future aircraft threats and modeling and simulation for improved countermeasure capabilities.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: The ALQ-214 received Milestone III approval in January 2004 and is still in Full-Rate Production (FRP). FRP 9 was the first ALQ-214 production lot in the IB-4 configuration and was awarded 3rd Qtr FY 2012. Annual production contract awards concluded in FY 2021 following award of FRP 18. Full Rate Production (FRP) ALQ-214 contract awards 19-22 were removed beginning in FY 2022 due to a reduction in operational systems to align with total fleet needs. Procurement of ALQ-214 Shop Replaceable Assembly (SRA) retrofits in FY 2022 through FY 2024 required for Adaptive Radar Countermeasures (ARC) processing capabilities on USMC F/A-18 C/D and USN F/A-18 E/F aircraft.

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy										Date: March 2023			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0576 / Common ECM Equipment					Modification Number / Title: 4 / COMMON ON-BOARD JAMMER (OBJ) (OSIP 004-12)			
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: F/A-18C/D/E/F				Modification Type: MISSION CAPABILITY				Related RDT&E PEs: 0604270N					
Financial Plan	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
<i>Modification Item 1 of 1:</i> COMMON ON-BOARD JAMMER (OBJ) (OSIP 004-12)													
B Kits													
Recurring													
1.1.1) Archived B Kits Install Equipment - Organic	263 / 34.971	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	263 / 34.971	
1.1.2) ALQ-214 Retrofit Kits (E/F) Install Equipment - Organic	450 / 7.629	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	450 / 7.629	
1.1.3) ALQ-214 Install Equipment - Organic	241 / 471.065	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	241 / 471.065	
1.1.4) ALQ-214 SRA Retrofit - Organic ⁽²⁸⁾	114 / 37.794	7 / 2.437	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	121 / 40.231	
1.1.5) ALQ-214 WRA Retrofit - Organic - Organic ⁽²⁹⁾	- / -	- / -	- / -	49 / 11.633	- / -	49 / 11.633	36 / 8.651	12 / 3.080	24 / 6.253	- / -	- / -	121 / 29.617	
<i>Subtotal: Recurring</i>	- / 551.459	- / 2.437	- / -	- / 11.633	- / -	- / 11.633	- / 8.651	- / 3.080	- / 6.253	- / -	- / 0.000	- / 583.513	
Non-Recurring													
1.2.1) B-Kits Non Recurring - Organic	- / 1.319	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.319	
<i>Subtotal: Non-Recurring</i>	- / 1.319	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 1.319	
<i>Subtotal: COMMON ON-BOARD JAMMER (OBJ) (OSIP 004-12)</i>	1,068 / 552.778	7 / 2.437	- / -	49 / 11.633	- / -	49 / 11.633	36 / 8.651	12 / 3.080	24 / 6.253	- / -	- / -	1,196 / 584.832	
<i>Subtotal: Procurement, All Modification Items</i>	- / 552.778	- / 2.437	- / -	- / 11.633	- / -	- / 11.633	- / 8.651	- / 3.080	- / 6.253	- / -	- / 0.000	- / 584.832	
Support (All Modification Items)													
2.3) Training Equipment	- / 0.855	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.855	
2.5) ILS ⁽³⁰⁾	- / -	- / 0.680	- / 0.930	- / 12.514	- / -	- / 12.514	- / 12.552	- / 1.764	- / 1.428	- / 1.575	- / -	- / 11.443	
2.6) Other Support ⁽³¹⁾	- / 186.779	- / 17.448	- / 16.350	- / 14.187	- / -	- / 14.187	- / 12.711	- / 12.062	- / 1.773	- / 1.672	- / -	- / 112.982	
2.8) Peculiar Support Equipment ⁽³²⁾	- / 17.638	- / 12.000	- / 15.553	- / 12.230	- / -	- / 12.230	- / -	- / -	- / -	- / -	- / -	- / 147.421	
<i>Subtotal: Support</i>	- / 195.272	- / 20.128	- / 22.833	- / 18.931	- / -	- / 18.931	- / 5.263	- / 3.826	- / 3.201	- / 3.247	- / 0.000	- / 172.701	
Installation													
<i>Subtotal: Installation</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
Total													
Total Cost (Procurement + Support + Installation)	648.050	22.565	22.833	30.564	0.000	30.564	13.914	6.906	9.454	3.247	0.000	757.533	

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0576 / Common ECM Equipment	Modification Number / Title: 4 / COMMON ON-BOARD JAMMER (OBJ) (OSIP 004-12)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Modification Item 1 of 1: COMMON ON-BOARD JAMMER (OBJ) (OSIP 004-12)

Manufacturer Information

Manufacturer Name: L3 Harris	Manufacturer Location: Clifton, NJ
Administrative Leadtime (<i>in Months</i>): 2	Production Leadtime (<i>in Months</i>): 12

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates		Dec 2022					
Delivery Dates		Dec 2023					

Footnotes:

⁽²⁸⁾ 1.1.4 Digital Receiver Technique Generator Generation 2 (DRTG G2) development delays for hardware and associated software/firmware (ECD Sept 22) has precluded commencement of retrofit, which is now planned to begin Q1FY24. Quantities reduced by 75 due to the divestiture of Adaptive Radar Countermeasures (ARC) requirements on USMC F/A-18C/Ds.

⁽²⁹⁾ 1.1.5 Funding realigned from Installs due to the funds being originally misclassified. These funds support the conversion of ALQ-214 V4 to A(V)4 (DRTG G2) configuration at the Original Equipment Manufacturer (OEM). The increase in FY 2024 is due to the start of conversions at the OEM planned Q1FY24.

⁽³⁰⁾ 2.5 ILS funding beginning in FY 2022 to establish ALQ-214 Organic Depot repair capability (Future Readiness Team Initiative 5 ALQ-214 Organic Capability). Funding provided for government support. FY 2025 begins the Organic Depot Repair Capability.

⁽³¹⁾ 2.6 Other Support funding required for annual field/technical support and Program Engineering Support. Decrease in Other Support in FY 2023 to FY 2024 is due to the reduction of government support as production deliveries near completion.

⁽³²⁾ 2.8 Peculiar Support Equipment funding beginning in FY22 to establish ALQ-214 Organic Depot repair capability (Future Readiness Team Initiative 5 ALQ-214 Organic Capability). This will be a 3 Phase Project Approach beginning in FY 2022 through FY 2024.

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0576 / Common ECM Equipment	Modification Number / Title: 5 / DISTRIBUTED APERTURE INFRARED COUNTERMEASURES (DAIRCM) / AN/AAQ-45 (OSIP 018-17)

ID Code (A=Service Ready, B=Not Service Ready) :						MDAP/MAIS Code:						
Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	82.516	2.006	32.311	1.500	0.000	1.500	14.584	22.931	21.559	34.042	203.838	415.287
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	82.516	2.006	32.311	1.500	0.000	1.500	14.584	22.931	21.559	34.042	203.838	415.287
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	82.516	2.006	32.311	1.500	0.000	1.500	14.584	22.931	21.559	34.042	203.838	415.287
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

DESCRIPTION/JUSTIFICATION: The AN/AAQ-45 Distributed Aperture Infrared Countermeasures (DAIRCM) is a lightweight Threat Warning System (TWS) and Infrared Countermeasure (IRCM) developed by the Navy Research Lab. The DAIRCM System offers significant savings in Size, Weight and Power (SWaP) and cost avoidance. The system consists of a centralized processor and laser(s) with high power fiber optic cables leading to 2-4 two-color Infrared (IR) and Laser Warning (LW) sensors. Each sensor incorporates a pointer tracker, which allows laser energy to be focused on incoming threats. This budget supports the Joint Urgent Operational Needs Statement SO-0010 (JUONS) and DAIRCM Program integration, validation, Follow-on Test and Evaluation (FOT&E), fielding, support, procurement and Engineering Change Proposals (ECPs) for MH-60S, AH-1Z and UH-1Y as required in accordance with FY 2015 JUONS and the May 2020 Acquisition Program Baseline. The UH-1Y has been designated the lead platform for the DAIRCM Program. This program reconciles Engineering Change Orders (ECOs), hardware/software upgrades and corrects deficiencies for documented reliability and maintainability degrades that persist in legacy JUONS systems.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: DAIRCM JUONS and system deliveries/installations for the MH-60S, AH-1Z and UH-1Y are ongoing. The DAIRCM Program is in the Engineering & Manufacturing Development Phase. DAIRCM EMD contract awarded June 2020 integrates system on aircraft platforms, improves IR and LW Sensor Probability detection (Pd), lowers False Alarm Rate (FAR), improves Hostile Fire Indication (HFI), increases Laser power, addresses growth for multi-spectral threats. DAIRCM Program APB approved May 2020.

COST TO COMPLETE: Procures 65 program A-kits and B-kits for UH-1Y and 16 DAIRCM JUONS for MH-60S, production engineering change orders, production software updates, nonrecurring engineering for integration, installation, modification, evaluation and other support.

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Exhibit P-3a, Individual Modification: PB 2024 Navy										Date: March 2023				
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0576 / Common ECM Equipment					Modification Number / Title: 5 / DISTRIBUTED APERTURE INFRARED COUNTERMEASURES (DAIRCM) / AN/AAQ-45 (OSIP 018-17)				
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:							
Models of Systems Affected: AH-1Z, UH-1Y, MH-60S					Modification Type: MISSION CAPABILITY				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total		
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)		
Procurement														
<i>Modification Item 1 of 1:</i> DISTRIBUTED APERTURE INFRARED COUNTERMEASURES (DAIRCM) / AN/AAQ-45 (OSIP 018-17)														
A Kits														
Recurring														
1.1.1 DAIRCM (A-Kits) UH-1Y POR - Organic	- / -	- / -	- / -	- / -	- / -	- / -	3 / 2.157	6 / 4.668	6 / 4.818	10 / 8.340	59 / 50.190	84 / 70.173		
<i>Subtotal: Recurring</i>	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / 2.157	- / 4.668	- / 4.818	- / 8.340	- / 50.190	- / 70.173		
B Kits														
Recurring														
2.1.1 DAIRCM (B-Kits) UH-1Y POR - Organic	- / -	- / -	- / -	- / -	- / -	- / -	3 / 6.003	6 / 12.000	6 / 11.940	10 / 20.600	59 / 123.971	84 / 174.514		
2.1.2 OCO Install Equip AH-1Z - Organic	15 / 21.225	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	15 / 21.225		
2.1.3 DAIRCM B-Kits UH-1Y - Organic	12 / 17.175	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	12 / 17.175		
2.1.4 Install Equip MH-60S - Organic	25 / 17.104	- / -	16 / 26.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	41 / 43.104		
<i>Subtotal: Recurring</i>	- / 55.504	- / -	- / 26.000	- / -	- / -	- / -	- / 6.003	- / 12.000	- / 11.940	- / 20.600	- / 123.971	- / 256.018		
Non-Recurring														
2.2.1 DAIRCM JUONS NRE - Organic	- / -	- / 0.978	- / 1.060	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 3.300	- / 5.338		
<i>Subtotal: Non-Recurring</i>	- / 0.000	- / 0.978	- / 1.060	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 3.300	- / 5.338		
<i>Subtotal: DISTRIBUTED APERTURE INFRARED COUNTERMEASURES (DAIRCM) / AN/AAQ-45 (OSIP 018-17)</i>	52 / 55.504	- / 0.978	16 / 27.060	- / -	- / -	- / -	6 / 8.160	12 / 16.668	12 / 16.758	20 / 28.940	118 / 177.461	236 / 331.529		
<i>Subtotal: Procurement, All Modification Items</i>	- / 55.504	- / 0.978	- / 27.060	- / -	- / -	- / -	- / 8.160	- / 16.668	- / 16.758	- / 28.940	- / 177.461	- / 331.529		
Support (All Modification Items)														
3.1) ILS	- / -	- / -	- / 3.780	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 3.780		
3.2) OCO Other Support	- / 27.012	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 27.012		
3.3) Other Support ⁽³³⁾	- / -	- / 1.028	- / 1.471	- / 1.500	- / -	- / 1.500	- / 1.609	- / 1.627	- / 1.662	- / 1.798	- / 26.377	- / 37.072		
3.4) Engineering Change Orders	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.817	- / 0.885	- / 0.888	- / 1.304	- / -	- / 5.894		
3.5) Software Upgrade	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.998	- / 3.751	- / 2.251	- / 2.000	- / -	- / 10.000		
<i>Subtotal: Support</i>	- / 27.012	- / 1.028	- / 5.251	- / 1.500	- / -	- / 1.500	- / 6.424	- / 6.263	- / 4.801	- / 5.102	- / 26.377	- / 83.758		
Installation														

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0576 / Common ECM Equipment	Modification Number / Title: 5 / DISTRIBUTED APERTURE INFRARED COUNTERMEASURES (DAIRCM) / AN/AAQ-45 (OSIP 018-17)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Models of Systems Affected: AH-1Z, UH-1Y, MH-60S	Modification Type: MISSION CAPABILITY	Related RDT&E PEs:
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Financial Plan	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
<i>Subtotal: Installation</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total												
Total Cost (Procurement + Support + Installation)	82.516	2.006	32.311	1.500	0.000	1.500	14.584	22.931	21.559	34.042	203.838	415.287

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0576 / Common ECM Equipment	Modification Number / Title: 5 / DISTRIBUTED APERTURE INFRARED COUNTERMEASURES (DAIRCM) / AN/AAQ-45 (OSIP 018-17)
ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:	
Modification Item 1 of 1: DISTRIBUTED APERTURE INFRARED COUNTERMEASURES (DAIRCM) / AN/AAQ-45 (OSIP 018-17)		

Footnotes:
(33) 3.2 FY24 funding provided for government engineering support for MH-60S JUONS prior year procurement.

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Exhibit P-3a, Individual Modification: PB 2024 Navy	Date: March 2023
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Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0576 / Common ECM Equipment	Modification Number / Title: 6 / INACTIVE OSIPs
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ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	743.252	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	743.252
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) <i>(\$ in Millions)</i>	743.252	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	743.252
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	743.252	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	743.252

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Dollars)</i>	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Inactive OSIPs prior year totals.

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Exhibit P-3a, Individual Modification: PB 2024 Navy										Date: March 2023		
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0576 / Common ECM Equipment						Modification Number / Title: 6 / INACTIVE OSIPs		
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:					
Models of Systems Affected: [No Model Specified]				Modification Type: TBD				Related RDT&E PEs:				
Financial Plan <small>(*) Indicates the modification is being installed organically and no installation funds are required.</small>	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>
Procurement												
1.1.1) Inactive OSIP - Organic ^(*)	- / 743.252	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 743.252
Subtotal: Procurement	- / 743.252	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 743.252
Installation												
Subtotal: Installation	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total												
Total Cost (Procurement + Support + Installation)	743.252	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	743.252

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Exhibit P-40, Budget Line Item Justification: PB 2024 Navy **Date:** March 2023

Appropriation / Budget Activity / Budget Sub Activity: 1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft	P-1 Line Item Number / Title: 0577 / Common Avionics Changes
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: 0605217N, 0604777N, 0604280N
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	3,020.539	102.861	128.120	136.199	0.000	136.199	258.943	264.323	308.865	347.149	1,841.037	6,408.036
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	3,020.539	102.861	128.120	136.199	0.000	136.199	258.943	264.323	308.865	347.149	1,841.037	6,408.036
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	3,020.539	102.861	128.120	136.199	0.000	136.199	258.943	264.323	308.865	347.149	1,841.037	6,408.036

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

This line item funds common avionics equipment for multiple aircraft.

The specific modifications budgeted and programmed are:

OSIP 71-88 The Navigation Satellite Timing and Ranging (NAVSTAR) Global Positioning System (GPS) Naval Warfare program is designed to provide a highly accurate position and time to users worldwide in all weather conditions. The GPS will interface with communication, navigation, and weapon systems equipment (standard attitude heading reference systems, inertial navigation systems, on-board computers, etc.) in selected applications. GPS is a Department of Defense mandated requirement for all aircraft operating in the National Air Space System after the year 2000.

OSIP 21-01 Communication Navigation Surveillance/Air Traffic Management (CNS/ATM) provides civil upgrades to communication, navigation, and surveillance systems enabling global access to increasingly congested airspace, and GPS based routes and procedures.

OSIP 11-09 Avionics Component Improvement Program (AvCIP) provides resources to address avionics component critical readiness degraders, performance reliability deficiencies, obsolescence threatening loss of sustainability and top Fleet operational or support cost drivers.

OSIP 10-19 Secure Communications (SECCOM) Avionics Modernization Program provides secure Ultra High Frequency/Very High Frequency, Amplitude Modulation/Frequency Modulation, Anti-Jam radio systems for Line of Sight and Beyond Line of Sight Satellite Communication voice and data communications including modernized cryptographic capabilities and anti-jam waveforms.

OSIP 06-20 Common Mission Computing and Displays (CMCD) modifies mission computers, mission processing capacity and display solutions; while providing improved capacity to meet expanding mission and data transfer requirements. CMCD reduces time and minimizes investment costs required to manage obsolescence and integrate new capabilities on tactical aircraft avionics and mission computer systems either through wholesale Weapons Replacement Assemblies (WRA) replacement, or as adjunct processing capabilities to rapidly facilitate new capability insertions. This introduces Commercial Off the Shelf (COTS) current state mission and or display processing technologies at an affordable cost allowing capabilities to be introduced into the fleet in an expedited manner. COTS displays, Open Architecture (OA) avionics systems and platform mission computers have multi-platform applications. Each configuration will be tailored and serve as an enabler to rapidly implement current and future capabilities through the Government's organic Multi-Use Laboratory Environment (MULE). MULE will execute these activities over the equipment's life cycle while reducing dependency on aircraft manufacturers during technology

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Exhibit P-40, Budget Line Item Justification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft		P-1 Line Item Number / Title: 0577 / Common Avionics Changes
ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: 0605217N, 0604777N, 0604280N
Line Item MDAP/MAIS Code: N/A		
<p>refreshes and capability insertions. CMCD products will contain COTS modules that will be integrated in the Government owned OA Core Level Software (CLS) through an organically managed program. This OSIP will centrally manage the fielded mission computing and display systems across multiple platforms to create efficiencies and cost saving to the Naval Aviation Enterprise.</p> <p>OSIP 04-25 GPS Modernization is designed to provide GPS Electronic Protection from jamming and interference, support GPS Electronic Attack by denying hostile forces access to space based Positioning, Navigation, and Timing (PNT) information, and GPS Electronic Support by detection, characterization, and geo-location of intentional PNT jamming and unintentional interference sources with the intent to neutralize those sources and mitigate their effects. This effort supports Navy's compliance with Public Law 111-383, which requires that all GPS user equipment be capable of receiving the new GPS M-Code signal after FY 2017.</p> <p>This OSIP currently consists of eleven (11) parallel efforts that integrate five (5) different M-Code GPS receivers into different Type/Model/Series (T/M/S) aircraft. The M-Code receivers are being developed under two Air Force programs, Miniaturized Airborne GPS receiver 2000-Modernization (MAGR2K-M) and Embedded GPS/Inertial Navigation System (EGI-M). The EGI-M program includes the LN-351, LN-300, ANAV-M, and H-764-M. MV-22B/CMV-22B, and E-6B will field the MAGR2K-M. F/A-18 E/F and EA-18G will field the ANAV-M. KC-130J will field the H-764-M. MH-60 R/S will field the LN-300. CH-53K, P-8A, MQ-4C, MQ-8C, AH-1Z/UH-1Y will field the LN-351.</p> <p>OSIP 06-25 Digital Interoperability (DI)/Marine Air Ground Task Force (MAGTF) Agile Network Gateway Link (MANGL) is the United States Marine Corps strategy to bridge multiple generations of technology using three matured capabilities; gateways, software defined radios, and Commercial Off-The-Shelf (COTS) interfaces. This modular integration approach enables iterative migration to advanced waveforms and payloads while providing enhanced digital connectivity between forces using dissimilar technologies. DI/MANGL will enable fleet integration of capabilities on COTS tablets and Government Off-The-Shelf (GOTS) applications. DI/MANGL will also enable logistics tracking and reporting (cargo and personnel) with the use of Radio Frequency Identification technology, advanced Electronic Warfare/Cyber capability, and threat data capturing/off-boarding. The architecture establishes the foundation to enable system performance data off-boarding, as well as data fusion and artificial intelligence augmentation capabilities.</p> <p>NOTE: DI/MANGL (OSIP 06-25) is not a new start. OSIP reprogrammed from PMA275 BLI 0590 FY23-FY28 and will leverage previous efforts to produce and certify a Digital Interoperability (DI)/Marine Air Ground Task Force (MAGTF) Agile Network Gateway Link (MANGL). This OSIP will be used to support the commonality of DI/MANGL, resulting in zero sum realignment with no new start. Headquarters Marine Corps (HQMC) added funding for program wholeness in POM23 for each year in the FYDP. Digital Interoperability (DI) - Marine Air-Ground Task Force (MAGTF) Agile Networking Gateway Link (MANGL) technical correction to address development of the Software Reconfigurable Payload (SRP) caused by FAA and NSA delays in certification of incorporated waveforms. POM23 and POM24 realigned FY23 and FY24 funding from APN to RDT&E (PE 0605217N) to cover the wholeness issues regarding Software Reconfigurable Payload (SRP) Development Waveform Certifications and is a zero sum realignment of FY24-FY28 funds to align correct appropriated funding to ensure the DI-MANGL portfolio is tracking to meet warfighter requirements using correct appropriation.</p>		

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Exhibit P-40, Budget Line Item Justification: PB 2024 Navy				Date: March 2023	
Appropriation / Budget Activity / Budget Sub Activity: 1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft				P-1 Line Item Number / Title: 0577 / Common Avionics Changes	
ID Code (A=Service Ready, B=Not Service Ready): A		Program Elements for Code B Items: N/A		Other Related Program Elements: 0605217N, 0604777N, 0604280N	

Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	1 / Global Positioning System (GPS) (OSIP 71-88) (Common Avionics Safety) (Added Capability))				- / 435.392	- / 8.176	- / 14.838	- / 17.757	- / 0.000	- / 17.757
P-3a	2 / Communication - Navigation - Surveillance / Air Traffic Management (CNS/ATM) Systems (OSIP 21-01) (Common Avionics Modification)				- / 1,310.408	- / 20.318	- / 17.850	- / 14.050	- / 0.000	- / 14.050
P-3a	3 / Avionics Component Improvement Program (AvCIP) (OSIP 11-09) (Common Avionics Modification)				- / 56.895	- / 2.914	- / 5.046	- / 5.163	- / 0.000	- / 5.163
P-3a	4 / Secure Communications (OSIP 10-19) (Common Avionics Modernization))				- / 51.921	- / 14.054	- / 50.156	- / 75.838	- / 0.000	- / 75.838
P-3a	5 / Common Mission Computing and Displays (CMCD) (OSIP 06-20) (Common Avionics Modernization))				- / 62.488	- / 57.399	- / 40.230	- / 23.391	- / 0.000	- / 23.391
P-3a	6 / Global Positioning System (GPS) Modernization (OSIP 04-25) (Common Avionics Modernization))				- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000
P-3a	7 / Digital Interoperability for MAGTF Agile Network (OSIP 06-25) (Common Avionics Modernization))				- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000
P-3a	8 / Inactive OSIPs (TBD)				- / 1,103.435	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000
P-40	Total Gross/Weapon System Cost				- / 3,020.539	- / 102.861	- / 128.120	- / 136.199	- / 0.000	- / 136.199

Exhibits Schedule					FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	1 / Global Positioning System (GPS) (OSIP 71-88) (Common Avionics Safety) (Added Capability))				- / 18.462	- / 19.522	- / 7.501	- / 7.648	- / 26.086	- / 555.382
P-3a	2 / Communication - Navigation - Surveillance / Air Traffic Management (CNS/ATM) Systems (OSIP 21-01) (Common Avionics Modification)				- / 4.388	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 1,367.014
P-3a	3 / Avionics Component Improvement Program (AvCIP) (OSIP 11-09) (Common Avionics Modification)				- / 5.000	- / 5.000	- / 4.914	- / 5.012	- / 131.740	- / 221.684
P-3a	4 / Secure Communications (OSIP 10-19) (Common Avionics Modernization))				- / 87.382	- / 77.892	- / 83.703	- / 89.219	- / 384.294	- / 914.459
P-3a	5 / Common Mission Computing and Displays (CMCD) (OSIP 06-20) (Common Avionics Modernization))				- / 16.778	- / 15.682	- / 8.643	- / 9.442	- / 9.432	- / 243.485
P-3a	6 / Global Positioning System (GPS) Modernization (OSIP 04-25) (Common Avionics Modernization))				- / 97.690	- / 89.446	- / 112.826	- / 111.828	- / 302.521	- / 714.311
P-3a	7 / Digital Interoperability for MAGTF Agile Network (OSIP 06-25) (Common Avionics Modernization))				- / 29.243	- / 56.781	- / 91.278	- / 124.000	- / 986.964	- / 1,288.266
P-3a	8 / Inactive OSIPs (TBD)				- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 1,103.435
P-40	Total Gross/Weapon System Cost				- / 258.943	- / 264.323	- / 308.865	- / 347.149	- / 1,841.037	- / 6,408.036

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Exhibit P-40, Budget Line Item Justification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft		P-1 Line Item Number / Title: 0577 / Common Avionics Changes
ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: 0605217N, 0604777N, 0604280N
Line Item MDAP/MAIS Code: N/A		
*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.		
Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.		

Justification:
The FY 2024 request procures the common capabilities/equipment required for the individual aircraft platforms.

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0577 / Common Avionics Changes	Modification Number / Title: 1 / Global Positioning System (GPS) (OSIP 71-88)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	435.392	8.176	14.838	17.757	0.000	17.757	18.462	19.522	7.501	7.648	26.086	555.382
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	435.392	8.176	14.838	17.757	0.000	17.757	18.462	19.522	7.501	7.648	26.086	555.382
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	435.392	8.176	14.838	17.757	0.000	17.757	18.462	19.522	7.501	7.648	26.086	555.382

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The Navigation Satellite Timing and Ranging (NAVSTAR) Global Positioning System (GPS) is designed to provide highly accurate position and time to users worldwide in all weather conditions. GPS will be integrated with communication, navigation, and weapon systems equipment (attitude heading reference systems, inertial navigation systems, mission computers, etc.). The program procures and modifies GPS equipment such as receivers, antennas, amplifiers, and protection technologies as required for naval aviation platforms. Navigation Warfare (NAVWAR) technologies protect a platform's GPS capability from GPS jamming and unintentional interference. Hardware configurations vary with each Type/Model/Series aircraft. The GPS Operational Requirement Document (ORD) 003-78 dated 22 January 1990 was based on an Air Force General Operating Requirement dated 28 January 1978. The Navy ORD for Enhanced GPS User Equipment for NAVWAR and GPS Modernization was approved on 7 June 2000.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

The NAVWAR full rate production for ADAP approval was received in June 2002. The MANGA-I IDIQ contract for production was awarded by the Army on 30 September 2020. This is a Base +4 year contract. The lead T/M/S (H-1) begins procurement in FY24 and fielding in FY25. Research, Development, Test and Evaluation, Navy is funded under Program Element 0604777N (FY19 and prior) and 0604280N (FY20 and out).

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Exhibit P-3a, Individual Modification: PB 2024 Navy										Date: March 2023			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0577 / Common Avionics Changes						Modification Number / Title: 1 / Global Positioning System (GPS) (OSIP 71-88)			
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: All Aircraft as directed by OPNAV				Modification Type: Common Avionics (Safety) (Added Capability)				Related RDT&E PEs: 0604777N, 0604280N					
Financial Plan <small>(* Indicates the modification is being installed organically and no installation funds are required.)</small>	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
1.1.1) NAVWAR Installation Kits (F/A-18E/F and EA-18G w/ panel) - NonOrganic Installation 1 of 3	335 / 31.829	11 / 2.227	36 / 3.415	27 / 1.901	- / -	27 / 1.901	- / -	22 / 2.289	- / -	- / -	- / -	431 / 41.661	
1.1.2) NAVWAR Installation Kits (F/A-18E/F and EA-18G w/o panel) - NonOrganic (1) Installation 2 of 3	21 / 1.723	- / -	24 / 1.545	33 / 2.335	- / -	33 / 2.335	60 / 4.189	35 / 2.920	- / -	- / -	- / -	173 / 12.712	
1.1.3) Anti-Jam Installation Kits (AH-1Z/UH-1Y) - NonOrganic Installation 3 of 3	- / -	- / -	- / -	32 / 0.804	- / -	32 / 0.804	32 / 0.820	32 / 0.836	32 / 0.852	32 / 0.870	131 / 3.754	291 / 7.936	
1.1.4) Archived ECPs - Organic(*)	2,148 / 178.698	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2,148 / 178.698	
1.2.1) Installation Kits N/R - Organic(*)	- / 4.303	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 4.303	
2.1.1) NAVWAR Installation Equipment (F/A-18E/F and EA-18G w/panel) - Organic(*) (2)	849 / 51.837	11 / 1.997	36 / 3.952	27 / 3.259	- / -	27 / 3.259	- / -	22 / 2.778	- / -	- / -	- / -	945 / 63.823	
2.1.2) NAVWAR Installation Equipment (F/A-18E/F and EA-18G w/o panel) - Organic(*) (3)	21 / 2.179	- / -	24 / 2.652	33 / 3.990	- / -	33 / 3.990	60 / 7.393	35 / 4.346	- / -	- / -	- / -	173 / 20.560	
2.1.3) Anti-Jam Installation Equipment (AH-1Z/UH-1Y) - Organic(*) (4)	- / -	- / -	- / -	32 / 2.330	- / -	32 / 2.330	32 / 2.391	32 / 2.441	32 / 2.491	32 / 2.543	131 / 11.017	291 / 23.213	
2.2.1) Installation Equipment N/R - Organic(*)	- / 24.413	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 24.413	
Subtotal: Procurement	- / 294.982	- / 4.224	- / 11.564	- / 14.619	- / -	- / 14.619	- / 14.793	- / 15.610	- / 3.343	- / 3.413	- / 14.771	- / 377.319	
Support													
3.1) NAVWAR Kit ECO	- / 2.547	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.547	
3.2) Data	- / 8.332	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 8.332	
3.3) Training Equipment - GPS	114 / 7.803	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	114 / 7.803	
3.4) Training Equipment - NAVWAR	3 / 0.529	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3 / 0.529	
3.5) Support Equipment	4 / 1.111	- / -	- / 0.128	- / 0.123	- / -	- / 0.123	- / -	- / 0.420	- / 0.124	- / 0.143	- / 0.428	4 / 1.362	
3.6) ILS	- / 4.180	- / 0.312	- / 0.487	- / 0.434	- / -	- / 0.434	- / 0.226	- / 0.420	- / 0.124	- / 0.143	- / 0.428	- / 6.754	
3.7) Other Support	- / 106.254	- / 2.031	- / 1.221	- / 1.069	- / -	- / 1.069	- / 1.099	- / 1.123	- / 1.149	- / 1.308	- / 7.622	- / 122.876	
Subtotal: Support	- / 130.756	- / 2.343	- / 1.836	- / 1.626	- / -	- / 1.626	- / 1.325	- / 1.543	- / 1.273	- / 1.451	- / 8.050	- / 150.203	
Installation													
Installation 1 of 3: NAVWAR Installation Kits (F/A-18E/F and EA-18G w/panel)	- / 9.654	- / 1.114	- / 1.252	- / 1.512	- / 0.000	- / 1.512	- / 1.158	- / 0.685	- / 0.865	- / 0.842	- / 0.803	- / 17.885	

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0577 / Common Avionics Changes	Modification Number / Title: 1 / Global Positioning System (GPS) (OSIP 71-88)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Models of Systems Affected: All Aircraft as directed by OPNAV	Modification Type: Common Avionics (Safety) (Added Capability)	Related RDT&E PEs: 0604777N, 0604280N
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Financial Plan <small>(*) Indicates the modification is being installed organically and no installation funds are required.</small>	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Installation 2 of 3: NAVWAR Installation Kits (F/A-18E/F and EA-18G w/o panel)	- / -	- / 0.495	- / 0.186	- / -	- / -	- / -	- / 0.859	- / 1.351	- / 1.680	- / 1.594	- / 0.601	- / 6.766
Installation 3 of 3: Anti-Jam Installation Kits (AH-1Z/ UH-1Y)	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.327	- / 0.333	- / 0.340	- / 0.348	- / 1.861	- / 3.209
<i>Subtotal: Installation</i>	- / 9.654	- / 1.609	- / 1.438	- / 1.512	- / -	- / 1.512	- / 2.344	- / 2.369	- / 2.885	- / 2.784	- / 3.265	- / 27.860
Total												
Total Cost (Procurement + Support + Installation)	435.392	8.176	14.838	17.757	0.000	17.757	18.462	19.522	7.501	7.648	26.086	555.382

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0577 / Common Avionics Changes	Modification Number / Title: 1 / Global Positioning System (GPS) (OSIP 71-88)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Installation 1 of 3: NAVWAR Installation Kits (F/A-18E/F and EA-18G w/panel)

Manufacturer Information

Manufacturer Name: The Boeing Company	Manufacturer Location: St. Louis, MO
Administrative Leadtime (in Months): 9	Production Leadtime (in Months): 37

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates	Jun 2022	Jun 2023	Jun 2024		Jun 2026		
Delivery Dates	Jul 2025	Jul 2026	Jul 2027		Jul 2029		

Installation Information

Method of Implementation: Non-Organic:: Installation Name: NAVWAR Installation Kits (F/A-18E/F and EA-18G w/panel)

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	189 / 9.654	37 / 1.114	36 / 1.252	43 / 1.512	0 / 0.000	43 / 1.512	30 / 1.053	- / -	- / -	- / -	0 / 0.000	335 / 14.585
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	3 / 0.105	8 / 0.261	- / -	- / -	0 / 0.000	11 / 0.366
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	13 / 0.424	23 / 0.765	- / -	0 / 0.000	36 / 1.189
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3 / 0.100	24 / 0.842	0 / 0.000	27 / 0.942
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	22 / 0.803	22 / 0.803
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	189 / 9.654	37 / 1.114	36 / 1.252	43 / 1.512	0 / 0.000	43 / 1.512	33 / 1.158	21 / 0.685	26 / 0.865	24 / 0.842	22 / 0.803	431 / 17.885

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	189	9	9	9	10	9	9	9	9	12	12	10	9	10	10	10	3	3	3	2	13	7	8	8	3	7	8	9	-	22	431
Out	189	9	9	9	10	9	9	9	9	12	12	10	9	10	10	10	3	3	3	2	13	7	8	8	3	7	8	9	-	22	431

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0577 / Common Avionics Changes	Modification Number / Title: 1 / Global Positioning System (GPS) (OSIP 71-88)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Installation 2 of 3: NAVWAR Installation Kits (F/A-18E/F and EA-18G w/o panel)

Manufacturer Information

Manufacturer Name: The Boeing Company	Manufacturer Location: St. Louis, MO
Administrative Leadtime (in Months): 9	Production Leadtime (in Months): 19

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates		Jun 2023	Jun 2024	Jun 2025	Jun 2026		
Delivery Dates		Jan 2025	Jan 2026	Jan 2027	Jan 2028		

Installation Information

Method of Implementation: Non-Organic:: Installation Name: NAVWAR Installation Kits (F/A-18E/F and EA-18G w/o panel)

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	15 / 0.495	6 / 0.186	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	21 / 0.681
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	22 / 0.859	2 / 0.084	- / -	- / -	0 / 0.000	24 / 0.943
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	30 / 1.267	3 / 0.126	- / -	0 / 0.000	33 / 1.393
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	37 / 1.554	23 / 0.894	0 / 0.000	60 / 2.448
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	18 / 0.700	17 / 0.601	35 / 1.301
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	15 / 0.495	6 / 0.186	- / -	- / -	- / -	22 / 0.859	32 / 1.351	40 / 1.680	41 / 1.594	17 / 0.601	173 / 6.766

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot	
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4			
In	-	-	5	5	5	6	-	-	-	-	-	-	-	-	-	8	8	6	2	10	10	10	3	9	13	15	23	4	8	6	17	173
Out	-	-	5	5	5	6	-	-	-	-	-	-	-	-	-	8	8	6	2	10	10	10	3	9	13	15	23	4	8	6	17	173

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0577 / Common Avionics Changes	Modification Number / Title: 1 / Global Positioning System (GPS) (OSIP 71-88)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Installation 3 of 3: Anti-Jam Installation Kits (AH-1Z/UH-1Y)

Manufacturer Information

Manufacturer Name: Mayflower Communication	Manufacturer Location: Bedford, Massachusetts
Administrative Leadtime (in Months): 4	Production Leadtime (in Months): 11

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates			Jan 2024	Jan 2025	Jan 2026	Jan 2027	Jan 2028
Delivery Dates			Dec 2024	Dec 2025	Dec 2026	Dec 2027	Dec 2028

Installation Information

Method of Implementation: [none specified]:: Installation Name: Anti-Jam Installation Kits (AH-1Z/UH-1Y)

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	32 / 0.327	- / -	- / -	- / -	0 / 0.000	32 / 0.327
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	32 / 0.333	- / -	- / -	0 / 0.000	32 / 0.333
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	32 / 0.340	- / -	0 / 0.000	32 / 0.340
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	32 / 0.348	0 / 0.000	32 / 0.348
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	32 / 0.365	32 / 0.365
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	131 / 1.496	131 / 1.496
Total	- / -	- / -	- / -	- / -	- / -	- / -	32 / 0.327	32 / 0.333	32 / 0.340	32 / 0.348	163 / 1.861	291 / 3.209

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot				
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4						
In	-	-	-	-	-	-	-	-	-	-	-	-	-	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	163	291
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	163	291

Footnotes:
 (1) FY23-FY26: NAVWAR Installation Kits (F/A-18E/F and EA-18G A-Kit without panel): FY22 without panel A-Kits were not procured. Those quantities were deferred to FY25 in order to align with the number of aircraft available for installs. Without panel increases in cost and quantity is a direct result of the requirement to have NAVWAR, a critical military GPS capability enabler and remain in alignment with the updated

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0577 / Common Avionics Changes	Modification Number / Title: 1 / Global Positioning System (GPS) (OSIP 71-88)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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phasing of installations. Without this GPS capability enabler, the aircraft is unable to complete the basic strike fighter mission and renders the aircraft only partially mission capable. Quantities increase to align with aircraft availability for modification, an increase in cost per unit is attributed to the variation in kit configurations.

(2) FY24: Installation Equipment (B-Kit) Increase in unit cost in FY24 from PB23 forecast is due to the economy of scale.

(3) FY24-FY25: NAVWAR Installation Equipment (F/A-18E/F and EA-18G B-Kit without panel): A change in available aircraft for installation necessitated the reduction in FY22 B-Kit (without panel) procurements. Increase in B-Kit (without panel) from 24 to 33 in FY24 and to 60 in FY25 is a result of the FY22 deferred procurements and to align with A-Kit procurements to support depot throughput capacity for installation on F/A-18 E/F and EA-18G aircraft requiring without panel modifications. The increase in cost is attributed to the variation in kit configurations required. Without this GPS capability enabler, the aircraft is unable to complete the basic strike fighter mission and renders the aircraft partially mission capable.

(4) FY24: Increase is due to the addition of 32 Anti-Jam Installation Kits for AH-1Z/UH-1Y.

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0577 / Common Avionics Changes	Modification Number / Title: 2 / Communication - Navigation - Surveillance / Air Traffic Management (CNS/ATM) Systems (OSIP 21-01)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	1,310.408	20.318	17.850	14.050	0.000	14.050	4.388	0.000	0.000	0.000	0.000	1,367.014
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	1,310.408	20.318	17.850	14.050	0.000	14.050	4.388	0.000	0.000	0.000	0.000	1,367.014
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	1,310.408	20.318	17.850	14.050	0.000	14.050	4.388	0.000	0.000	0.000	0.000	1,367.014

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Communication Navigation Surveillance/Air Traffic Management (CNS/ATM) provides new and enhanced hardware and software solutions leveraging open architecture where cost effective, to comply with national and worldwide civil and military airspace requirements. Solutions include communication, navigation, surveillance and supporting technologies that facilitate air traffic management, and other civil and military operational capabilities. Impacts of non-compliance with airspace standards will include operational delays, circuitous rerouting, or access denial to controlled airspace.

Prioritization of platform type and quantity is based on missions and anticipated operations in affected airspace. Required functionalities include Mode Select (S), 8.33 kHz Channel Spacing, Required Navigation Performance Area Navigation (RNP RNAV), Reduced Vertical Separation Minimum (RVSM), Automatic Dependent Surveillance - Broadcast (Out) (ADS-B(O)), Mission Planning integration, Protected Instrument Landing System (P-ILS), cockpit aircraft data storage, processing and display capabilities and the procurement of the Flight Management Function (FMF) Enterprise License (Block Buy) for multiple T/M/S in support of RNP RNAV.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

- AH-1Z/UH-1Y Mode S (FY23-FY25), ADS-B(O) (FY23-FY25), RNP RNAV (FY23-FY25)
- CMV-22B RNP RNAV (FY23-FY25)
- F-35 B/C RVSM (FY23), RNP RNAV (FY23-FY25)
- MH-60R/S RNP RNAV (FY23)
- MQ-4C ADS-B(O) (FY23), 8.33 kHz (FY23-FY24), Mode S (FY23)
- MQ-8B/C ADS-B(O) (FY23-FY24), Mode S (FY23-FY24)
- MQ-25A 8.33 kHz (FY23), Mode S (FY23-FY24), ADS-B(O) (FY23-FY24)

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0577 / Common Avionics Changes	Modification Number / Title: 2 / Communication - Navigation - Surveillance / Air Traffic Management (CNS/ATM) Systems (OSIP 21-01)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Models of Systems Affected: All A/C as directed by OPNAV	Modification Type: Common Avionics Modification	Related RDT&E PEs: 0605217N
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Financial Plan <small>(*) Indicates the modification is being installed organically and no installation funds are required.</small>	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Procurement												
1.1.1) Archived ECP's - Organic ^{(*) (5)}	597 / 71.950	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	597 / 71.950
1.2.1) Installation Kits N/R - Organic ^(*)	- / 59.108	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 59.108
2.1.1) CNS/ATM Installation Equipment - Organic ^{(*) (6)}	770 / 61.042	108 / 9.819	13 / 1.450	6 / 0.728	- / -	6 / 0.728	3 / 0.295	- / -	- / -	- / -	- / -	900 / 73.334
2.1.2) Archived ECPs - Organic ^(*)	2,194 / 153.455	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2,194 / 153.455
2.2.1) Installation Equipment N/R - Organic ^(*)	33 / 441.210	- / 0.133	- / 2.208	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	33 / 443.551
Subtotal: Procurement	- / 786.765	- / 9.952	- / 3.658	- / 0.728	- / -	- / 0.728	- / 0.295	- / -	- / -	- / -	- / 0.000	- / 801.398
Support												
3.1) Engineering Change Orders	- / 1.550	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.550
3.2) Data	- / 6.179	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 6.179
3.3) Training ⁽⁷⁾	20 / 31.979	- / -	- / 0.500	- / 4.100	- / -	- / 4.100	- / -	- / -	- / -	- / -	- / -	20 / 36.579
3.4) Support Equipment	- / 7.838	- / 0.026	- / 0.027	- / 0.008	- / -	- / 0.008	- / 0.008	- / -	- / -	- / -	- / -	- / 7.907
3.5) ILS	- / 127.188	- / 0.253	- / 0.185	- / 0.023	- / -	- / 0.023	- / 0.012	- / -	- / -	- / -	- / -	- / 127.661
3.6) Other Support ⁽⁸⁾	- / 148.909	- / 10.087	- / 13.480	- / 19.191	- / -	- / 19.191	- / 4.073	- / -	- / -	- / -	- / -	- / 148.740
Subtotal: Support	- / 523.643	- / 10.366	- / 14.192	- / 13.322	- / -	- / 13.322	- / 4.093	- / -	- / -	- / -	- / 0.000	- / 565.616
Installation												
Subtotal: Installation	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total												
Total Cost (Procurement + Support + Installation)	1,310.408	20.318	17.850	14.050	0.000	14.050	4.388	0.000	0.000	0.000	0.000	1,367.014

Footnotes:
⁽⁵⁾ Item 1.1.1 Archived ECP's combined the following items 1.1.1 CNS/ATM Installation Kits (All other A/C excluding TPS platforms), 1.1.2 CNS/ATM Installation Kits (F-5 Long Lead A-Kits) and 1.1.3 Archived ECPs (this includes all platforms).
⁽⁶⁾ FY24-FY25: Installation Equipment (B-Kit) cost variations required to support multiple configurations/solutions on aircraft quantities and associated equipment and cost of equipment per platform. No A-Kit procurement or installations associated with B-Kit procurement. B-Kit procurement decreased as per updated estimates. The increase in unit cost in FY24 from PB23 forecast is due to economy of scale. Item 2.1.2 Archived ECP's combined with the following item 2.1.1 CNS/ATM Installation Equipment.

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0577 / Common Avionics Changes	Modification Number / Title: 2 / Communication - Navigation - Surveillance / Air Traffic Management (CNS/ATM) Systems (OSIP 21-01)
ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:	
<p>⁽⁷⁾ FY23 Training equipment modifications for MH-60 support RNAV2 implementation, a subset of the RNP RNAV capability, through updated RNP RNAV alerting functions. FY24 training equipment modifications for CMV-22 support full RNP RNAV implementation requiring integration of all RNP RNAV functionality, which includes all RNP RNAV alerting functions. CMV-22 training updates directly support pilot training and certification to complete the CMV-22 Carrier Onboard Delivery mission.</p> <p>⁽⁸⁾ FY24: Other Support increased as a result of multiple required certification efforts (CMV-22B, MQ-4C, MQ-8B/C, MQ-25A, and F-35) and the flight test required to integrate the RNP RNAV capability in test aircraft (CMV-22B).</p>		

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0577 / Common Avionics Changes	Modification Number / Title: 3 / Avionics Component Improvement Program (AvCIP) (OSIP 11-09)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	56.895	2.914	5.046	5.163	0.000	5.163	5.000	5.000	4.914	5.012	131.740	221.684
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	56.895	2.914	5.046	5.163	0.000	5.163	5.000	5.000	4.914	5.012	131.740	221.684
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	56.895	2.914	5.046	5.163	0.000	5.163	5.000	5.000	4.914	5.012	131.740	221.684

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Avionics Component Improvement Program (AvCIP) provides resources to address critical readiness, reliability deficiencies, obsolescence, loss of sustainability, and top fleet repair cost drivers in naval avionics systems. In the year prior to execution, candidate projects from all Type/Model/Series (T/M/S) and aviation electronics support components are collected, reviewed, competed and selected based upon proposal solution maturity, ability to execute, mission criticality and urgency, degree of readiness, impact on Fleet maintenance or repair cost burden, return on investment, and Fleet advocacy. AvCIP was established under the OSD Business Initiative Council as a better business practice to address cost-wise readiness in support of Naval Aviation Enterprise (NAE) efficiency objectives. AvCIP also supports the NAE strategic imperative of increasing speed of product to the fleet. AvCIP is funded with Aircraft Procurement, Navy (APN) account to cover Non-Recurring Engineering (NRE) for modifications, integration testing, lab assets, qualification testing, engineering and logistics documentation and support services. APN funds can insert modern technology while addressing poor performance or obsolescence (that threatens to down aircraft), and support project modification component procurements, as required. Follow-on procurement tails, if required, will be coordinated with Program Offices and their Operational, Safety and Improvement Programs (OSIPs). Candidate projects are submitted via a rigorous template and reviewed by a panel of Avionics professionals. Analysis shows that funding applied under this program has consistently enabled life cycle sustainment and procurement cost avoidances exceeding a five to one margin.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: AvCIP project selection criteria focus on proposed solution maturity and executability in which the timeframe for target projects to start fielding the solutions is 12-18 months. Units may be transferred to Fleet platforms as operational assets. Future year specific development profiles/milestones will be dependent upon projects competed and selected. Procurements below are representative of initial project lab asset purchases for qualification and production validation.

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Exhibit P-3a, Individual Modification: PB 2024 Navy										Date: March 2023			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0577 / Common Avionics Changes					Modification Number / Title: 3 / Avionics Component Improvement Program (AvCIP) (OSIP 11-09)			
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: All Aircraft as directed by OPNAV				Modification Type: Common Avionics Modification				Related RDT&E PEs: 0605217N					
Financial Plan	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
<i>Modification Item 1 of 1: Avionics Component Improvement Program (AvCIP) (OSIP 11-09)</i>													
B Kits													
Recurring													
1.1.1) AvCIP Installation Equipment - NonOrganic ⁽⁹⁾	22 / 10.118	12 / 2.232	12 / 2.277	12 / 2.313	- / -	12 / 2.313	12 / 2.346	12 / 2.393	12 / 2.257	12 / 2.358	138 / 44.448	244 / 70.742	
<i>Subtotal: Recurring</i>	- / 10.118	- / 2.232	- / 2.277	- / 2.313	- / -	- / 2.313	- / 2.346	- / 2.393	- / 2.257	- / 2.358	- / 44.448	- / 70.742	
Non-Recurring													
1.2.1) Installation Equipment N/R - Organic	- / 34.955	- / 0.096	- / 1.439	- / 1.489	- / -	- / 1.489	- / 1.510	- / 1.537	- / 1.450	- / 1.475	- / 62.607	- / 106.558	
<i>Subtotal: Non-Recurring</i>	- / 34.955	- / 0.096	- / 1.439	- / 1.489	- / -	- / 1.489	- / 1.510	- / 1.537	- / 1.450	- / 1.475	- / 62.607	- / 106.558	
<i>Subtotal: Avionics Component Improvement Program (AvCIP) (OSIP 11-09)</i>	22 / 45.073	12 / 2.328	12 / 3.716	12 / 3.802	- / -	12 / 3.802	12 / 3.856	12 / 3.930	12 / 3.707	12 / 3.833	138 / 107.055	244 / 177.300	
<i>Subtotal: Procurement, All Modification Items</i>	- / 45.073	- / 2.328	- / 3.716	- / 3.802	- / -	- / 3.802	- / 3.856	- / 3.930	- / 3.707	- / 3.833	- / 107.055	- / 177.300	
Support (All Modification Items)													
2.3) ILS	- / 0.637	- / 0.111	- / 0.115	- / 0.118	- / -	- / 0.118	- / 0.044	- / 0.038	- / 0.081	- / 0.126	- / 5.095	- / 6.365	
2.5) Support Equipment	- / 0.633	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.633	
2.6) Other Support	- / 10.552	- / 0.475	- / 0.495	- / 0.505	- / -	- / 0.505	- / 0.326	- / 0.243	- / 0.380	- / 0.224	- / 13.238	- / 26.438	
<i>Subtotal: Support</i>	- / 11.822	- / 0.586	- / 0.610	- / 0.623	- / -	- / 0.623	- / 0.370	- / 0.281	- / 0.461	- / 0.350	- / 18.333	- / 33.436	
Installation													
<i>Modification Item 1 of 1: Avionics Component Improvement Program (AvCIP) (OSIP 11-09)</i>	- / 0.000	- / 0.000	- / 0.720	- / 0.738	- / 0.000	- / 0.738	- / 0.774	- / 0.789	- / 0.746	- / 0.829	- / 6.352	- / 10.948	
<i>Subtotal: Installation</i>	- / 0.000	- / -	- / 0.720	- / 0.738	- / -	- / 0.738	- / 0.774	- / 0.789	- / 0.746	- / 0.829	- / 6.352	- / 10.948	
Total													
Total Cost (Procurement + Support + Installation)	56.895	2.914	5.046	5.163	0.000	5.163	5.000	5.000	4.914	5.012	131.740	221.684	

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0577 / Common Avionics Changes	Modification Number / Title: 3 / Avionics Component Improvement Program (AvCIP) (OSIP 11-09)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Modification Item 1 of 1: Avionics Component Improvement Program (AvCIP) (OSIP 11-09)

Manufacturer Information

Manufacturer Name: Various	Manufacturer Location: Various
Administrative Leadtime (in Months): 2	Production Leadtime (in Months): 15

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates	Nov 2021	Nov 2022	Nov 2023	Nov 2024	Nov 2025	Nov 2026	Nov 2027
Delivery Dates	Feb 2023	Feb 2024	Feb 2025	Feb 2026	Feb 2027	Feb 2028	Feb 2029

Installation Information

Method of Implementation: Equipment is provided to Platform PMA and installed as per airframe ECP/AFC:: Installation Name: AvC

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	- / -
FY 2022	- / -	- / -	12 / 0.720	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	12 / 0.720
FY 2023	- / -	- / -	- / -	12 / 0.738	0 / 0.000	12 / 0.738	- / -	- / -	- / -	- / -	0 / 0.000	12 / 0.738
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	12 / 0.774	- / -	- / -	- / -	0 / 0.000	12 / 0.774
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	12 / 0.789	- / -	- / -	0 / 0.000	12 / 0.789
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	12 / 0.746	- / -	0 / 0.000	12 / 0.746
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	12 / 0.829	0 / 0.000	12 / 0.829
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	12 / 0.508	12 / 0.508
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	138 / 5.844	138 / 5.844
Total	- / -	- / -	12 / 0.720	12 / 0.738	0 / 0.000	12 / 0.738	12 / 0.774	12 / 0.789	12 / 0.746	12 / 0.829	150 / 6.352	222 / 10.948

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	4	4	4	-	4	4	4	-	4	4	4	-	4	4	4	-	4	4	4	-	4	4	4	150	222
Out	-	-	-	-	-	-	4	4	4	-	4	4	4	-	4	4	4	-	4	4	4	-	4	4	4	-	4	4	4	150	222

Footnotes:
⁽⁹⁾ No Installation Kit (A-Kit) Procurement associated with the Installation Equipment (B-Kit) Procurement. Prior Year B-Kit Procurement, quantity of (22), no installs required. B-Kits and Installs are estimated based on engineering projections. Actual components to be determined during project selection in the year prior to execution, as outlined in project description/justification on P-3a. Install cost variations are due to variations in kit procurements for multiple aircraft, platform quantities, and associated equipment per platform.

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0577 / Common Avionics Changes	Modification Number / Title: 4 / Secure Communications (OSIP 10-19)

ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:					
Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	51.921	14.054	50.156	75.838	0.000	75.838	87.382	77.892	83.703	89.219	384.294	914.459
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	51.921	14.054	50.156	75.838	0.000	75.838	87.382	77.892	83.703	89.219	384.294	914.459
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	51.921	14.054	50.156	75.838	0.000	75.838	87.382	77.892	83.703	89.219	384.294	914.459
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Dollars)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The Secure Communication Avionics Modernization Program provides secure Ultra High Frequency (UHF)/Very High Frequency (VHF) Amplitude Modulation/Frequency Modulation (AM/FM) Anti-Jam radio systems for Line of Sight (LOS) and Beyond Line of Sight (BLOS) Satellite Communication (SATCOM) voice and data communications including modernized Advanced Cryptographic Capabilities (ACC) and anti-jam waveforms. The program provides for continued Secure communications beyond current National Security Agency (NSA) mandated cryptographic (CRYTPO) Cease Key Dates and overcomes analog HAVEQUICK vulnerabilities with required robust digital encryption/frequency hopping capability. Enables secure LOS and BLOS communications with increased access, significantly increased global coverage, higher bandwidth and Internet Protocol (IP) connectivity. Secure Communications mitigates BLOS and Anti-Jam waveform obsolescence with the additions of the Mobile Users Objective System (MUOS), Single Channel Ground and Airborne Radio System (SINCGARS) and Second Generation Anti-Jam Tactical UHF Radio for North Atlantic Treaty Organization (NATO) (SATURN) waveforms.

Only aircraft integrating MUOS, antenna system or a radio-control change require Installation Kits (A-Kit); all others integrating Communications Security (COMSEC) do not.

The cost increase in FY24 is attributed to the program being funded to accelerate the fielding of terminals and Remote Control Units (RCU) for waveform transitions and cryptographic modernization in time to meet need date due to waveform and cryptographic obsolescence in FY24-Out.

Research, Development, Test & Evaluation, Navy is funded under Program Element (PE) 0604215N (FY16 and prior), PE 0605217N (FY17 and out). Tactical Communications (TACCOM) provides software updates for both cryptographic and waveform modernization of Secure Communication.

Development Status/Major Development Milestones: Full Rate Production approved 16 May 2011. FY22-28: The Installation Equipment Non-Recurring is the integration cost for the procurement buys in FY22 through To Complete and for various Type/Model/Series (T/M/S) aircraft to implement S/W modifications to mission computers to incorporate Anti-Jam Waveforms, MUOS, and Crypto Modernization. Installation Kit Recurring cost per quantity variation is due to multiple T/M/S aircraft, platform quantities, associated equipment per platform, and cost per equipment.

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Exhibit P-3a, Individual Modification: PB 2024 Navy										Date: March 2023			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0577 / Common Avionics Changes						Modification Number / Title: 4 / Secure Communications (OSIP 10-19)			
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: All platforms as directed by OPNAV.				Modification Type: Common Avionics (Modernization)				Related RDT&E PEs: 0605217N					
Financial Plan <small>(*) Indicates the modification is being installed organically and no installation funds are required.</small>	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total	
	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	
Procurement													
1.1.1) Secure Communications Installation Kits - NonOrganic ⁽¹⁰⁾ <i>Installation 1 of 1</i>	1 / 0.013	- / -	18 / 1.014	19 / 1.123	- / -	19 / 1.123	47 / 2.225	77 / 3.089	114 / 4.334	191 / 6.245	781 / 20.146	1,248 / 38.189	
2.1.1) Secure Communications Installation Equipment - Organic ⁽¹¹⁾	190 / 20.720	14 / 3.396	77 / 14.161	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	281 / 38.277	
2.1.2) Secure Communications Installation Equipment (RCU-B) - Organic ⁽¹²⁾	- / -	- / -	- / -	331 / 5.418	- / -	331 / 5.418	331 / 5.526	250 / 4.257	- / -	- / -	- / -	912 / 15.201	
2.1.3) Secure Communications Installation Equipment (GEN 6) - Organic ⁽¹³⁾	- / -	- / -	- / -	31 / 8.281	- / -	31 / 8.281	57 / 13.512	77 / 11.000	114 / 26.817	191 / 47.744	781 / 248.172	1,251 / 355.526	
2.2.1) Installation Equipment Non-Recurring - Organic ⁽¹⁴⁾	- / 21.090	- / 9.175	- / 33.136	- / 55.420	- / -	- / 55.420	- / 60.289	- / 51.248	- / 42.269	- / 21.110	- / 4.978	- / 298.715	
Subtotal: Procurement	- / 41.823	- / 12.571	- / 48.311	- / 70.242	- / -	- / 70.242	- / 81.552	- / 69.594	- / 73.420	- / 75.099	- / 273.296	- / 745.908	
Support													
3.3) Training Equipment	- / 0.178	- / 0.507	- / -	- / 0.600	- / -	- / 0.600	- / 0.600	- / 0.600	- / -	- / -	- / -	- / 2.485	
3.4) Support Equipment	- / 1.651	- / -	- / 0.120	- / -	- / -	- / -	- / 0.031	- / 0.050	- / -	- / -	- / -	- / 1.852	
3.5) ILS ⁽¹⁵⁾	- / 0.524	- / 0.219	- / 0.225	- / 0.495	- / -	- / 0.495	- / 0.508	- / 0.520	- / 0.531	- / 0.542	- / 0.007	- / 3.571	
3.6) Other Support	- / 17.745	- / 0.664	- / 11.500	- / 11.708	- / -	- / 11.708	- / 1.743	- / 1.788	- / 1.828	- / 2.362	- / 0.183	- / 19.521	
Subtotal: Support	- / 10.098	- / 1.390	- / 11.845	- / 2.803	- / -	- / 2.803	- / 2.882	- / 2.958	- / 2.359	- / 2.904	- / 0.190	- / 27.429	
Installation													
Installation 1 of 1: Secure Communications Installation Kits	- / -	- / 0.093	- / -	- / 2.793	- / 0.000	- / 2.793	- / 2.948	- / 5.340	- / 7.924	- / 11.216	- / 110.808	- / 141.122	
Subtotal: Installation	- / 0.000	- / 0.093	- / -	- / 2.793	- / -	- / 2.793	- / 2.948	- / 5.340	- / 7.924	- / 11.216	- / 110.808	- / 141.122	
Total													
Total Cost (Procurement + Support + Installation)	51.921	14.054	50.156	75.838	0.000	75.838	87.382	77.892	83.703	89.219	384.294	914.459	

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0577 / Common Avionics Changes	Modification Number / Title: 4 / Secure Communications (OSIP 10-19)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Installation 1 of 1: Secure Communications Installation Kits

Manufacturer Information

Manufacturer Name: Various	Manufacturer Location: Various
Administrative Leadtime (in Months): 4	Production Leadtime (in Months): 11

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates		Jan 2023	Jan 2024	Jan 2025	Jan 2026	Jan 2027	Jan 2028
Delivery Dates		Dec 2023	Dec 2024	Dec 2025	Dec 2026	Dec 2027	Dec 2028

Installation Information

Method of Implementation: [none specified]:: Installation Name: Secure Communications Installation Kits

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	1 / 0.093	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	1 / 0.093
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	18 / 2.793	0 / 0.000	18 / 2.793	- / -	- / -	- / -	- / -	0 / 0.000	18 / 2.793
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	19 / 2.948	- / -	- / -	- / -	0 / 0.000	19 / 2.948
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	47 / 5.340	- / -	- / -	0 / 0.000	47 / 5.340
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	77 / 7.924	- / -	0 / 0.000	77 / 7.924
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	114 / 11.216	0 / 0.000	114 / 11.216
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	191 / 21.774	191 / 21.774
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	781 / 89.034	781 / 89.034
Total	- / -	1 / 0.093	- / -	18 / 2.793	0 / 0.000	18 / 2.793	19 / 2.948	47 / 5.340	77 / 7.924	114 / 11.216	972 / 110.808	1,248 / 141.122

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	1	-	-	-	-	-	-	-	4	4	5	5	4	5	5	5	11	12	12	12	19	19	19	20	28	28	29	29	972	1,248
Out	-	1	-	-	-	-	-	-	-	4	4	5	5	4	5	5	5	11	12	12	12	19	19	19	20	28	28	29	29	972	1,248

Footnotes:
⁽¹⁰⁾ FY24-To Complete: Installation Kit (A-Kit) Procurement and Installs decreased from PB23 to PB24 due to E-2D platform schedule delay, MV-22 delaying MUOS (A-Kit) and prioritizing Crypto Modernization to meet the classified National Security Agency (NSA) legacy cryptographic cease key dates, and MH-60 realignment with mission computer software updates. FY24: Installation Kit (A-Kit) unit cost increase from PB23 to PB24 was driven by refinement of MUOS integration configuration for CMV/MV-22B and CH-53K; as well as the decrease in quantity and kit composition resulted in a higher unit cost. All other aircraft, no A-Kit Procurement or Installs associated with Installation Equipment (B-Kit) Procurement. FY25-To Complete: A-Kit cost per quantity driven by variation in aircraft configuration, platform quantities, associated

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0577 / Common Avionics Changes	Modification Number / Title: 4 / Secure Communications (OSIP 10-19)
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:
<p>equipment per platform, and cost per equipment related to Crypto Modernization and MUOS for UC-12, UC-35, C-37A/B, KC-130J, CH-53K, CMV-22, MV-22B, E-2C, E-2D, MH-60R, MH-60S, MQ-4C, E-6B, and P-8A. The budget request addresses meeting the classified NSA legacy cryptographic cease key date by transitioning to the replacement primary secure voice/data algorithm.</p> <p>⁽¹¹⁾ Prior Years-FY23: Installation Equipment (B-Kit) aligned to differentiate between initial Crypto Modernization procurements vice Gen6 Crypto and Satellite Communications Modernization Procurements. Update now reflects prior years to FY23 Installation Equipment (B Kit) Procurements for Crypto Modernization on UC-12, C-40A, KC-130T/J, CH-53E/K, MV-22B, E-2D, MH-60R, MH-60S, MQ-4C, E-6B, and P-8A to meet the classified National Security Agency (NSA) legacy cryptographic cease key dates.</p> <p>⁽¹²⁾ FY24-FY26: Installation Equipment (B-Kit) RCU-B procurement quantity increase driven by ARC-210 Advanced Waveform Integration, which will require forced retrofit of Legacy Remote Control Unit (RCU) (C-12561A) on C/KC-130T, KC-130J, MV-22B and MH-60R/S. No A-Kit Procurement or Installation is associated with B-Kit Procurement.</p> <p>⁽¹³⁾ FY24-To Complete: Installation Equipment (B-Kit) Procurement aligned to Gen6 related Crypto and Satellite Modernization. Adjustment reflects a decrease from PB23 to PB24 due to E-2D platform schedule delay, MV-22 delaying MUOS (B-Kit) and prioritizing Crypto Modernization to meet the classified National Security Agency (NSA) legacy cryptographic cease key dates, and MH-60 realignment with mission computer software updates. FY24: Installation Equipment (B-Kit) cost per unit increase from PB23 to PB24 was driven by refinement of MUOS integration configuration kit composition which resulted in a higher unit cost for CMV/MV-22B, MH-60R, MH-60S and CH-53K. All other aircraft, no A-Kit Procurement or Installs associated with B-Kit Procurement. B-Kit cost per quantity variation in aircraft configuration, platform quantities, associated equipment per platform, and cost per equipment related to Crypto Modernization and MUOS for C-37A/B, KC-130J, CH-53E, CH-53K, CMV-22, MV-22B, E-2C, E-2D, MH-60R, MH-60S, MQ-4C, E-6B, and P-8A. FY25-To Complete: Installation Equipment (B-Kit) cost per quantity driven by variation from A-Kit procurement quantities for CMV/MV-22B, CH-53K, UC-12 and UC-35 because of Forward Fit in production or prior depot change of A-Kit. The budget request addresses meeting the classified NSA legacy cryptographic cease key date by transitioning to the replacement primary secure voice/ data algorithm.</p> <p>⁽¹⁴⁾ FY23-FY24: Installation Equipment Non-Recurring (B-Kit N/R) aligned to Gen6 related Crypto and Satellite Modernization. N/R increase is due to KC-130J, KC-130T, C-37A/B, CMV/MV-22B, E-2C/D and E-6B platform integration of B-Kits, modification to the mission computer operating systems to incorporate Anti-Jam Waveforms, antenna system retrofit associated with MUOS SATCOM, and Crypto Modernization as well as the acceleration of terminal fielding for waveform transitions and cryptographic modernization in time to meet need date due to waveform and cryptographic obsolescence.</p> <p>⁽¹⁵⁾ FY24-FY27: Integrated Logistics Support increase driven by level of staffing required to support additional retrofits of Remote Control Units for Crypto Modernization requirements.</p>		

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0577 / Common Avionics Changes	Modification Number / Title: 5 / Common Mission Computing and Displays (CMCD) (OSIP 06-20)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	62.488	57.399	40.230	23.391	0.000	23.391	16.778	15.682	8.643	9.442	9.432	243.485
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	62.488	57.399	40.230	23.391	0.000	23.391	16.778	15.682	8.643	9.442	9.432	243.485
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	62.488	57.399	40.230	23.391	0.000	23.391	16.778	15.682	8.643	9.442	9.432	243.485

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Common Mission Computing and Displays (CMCD) modifies mission computers, mission processing capacity and display solutions; while providing improved capacity to meet expanding mission and data transfer requirements. CMCD reduces time and minimizes investment costs required to manage obsolescence and integrate new capabilities on tactical aircraft avionics and mission computer systems either through wholesale Weapons Replacement Assemblies (WRA) replacement, or as adjunct processing capabilities to rapidly facilitate new capability insertions. This introduces Commercial Off the Shelf (COTS) current state mission and or display processing technologies at an affordable cost allowing capabilities to be introduced into the fleet in an expedited manner. COTS displays, Open Architecture (OA) avionics systems and platform mission computers have multi-platform applications and this reduces overall costs for technology refresh and obsolescence management. Each configuration will be tailored and serve as an enabler to rapidly implement current and future capabilities through the Government's organic Multi-Use Laboratory Environment (MULE). MULE will execute these activities over the equipment's life cycle while reducing dependency on aircraft manufacturers during technology refreshes and capability insertions. CMCD products will contain COTS modules that will be integrated in the Government owned OA Core Level Software (CLS) through an organically managed program. This OSIP will centrally manage the fielded mission computing and display systems across multiple platforms to create efficiencies and cost saving to the Naval Aviation Enterprise.

Current funding FY22 through FY28 include T-45C and E-2D. These costs cover modification of the baseline framework to re-host the T-45C legacy Operational Flight Plan (OFP), partition separable OA environments, implement a common open software application and field the retrofits. Funding supports mission computer/adjunct processor re-host, platform integration and test for E-2D mission computer/adjunct processor in support of E-2D Delta System Software Configuration-6 (DSSC-6) Theatre Combat Identification (TCID) efforts.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: T-45C Software Qualification Testing scheduled to complete in September 2022 after flight testing. A T-45C Mission Computer Alternative (MCA) Production Readiness Review is scheduled for the first quarter of FY2023 with the Production contract award planned for February 2023. E-2D Mission Computer Alternative adjunct processor integration contract awarded in February 2022 and Systems Readiness Review One is scheduled in August 2022.

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0577 / Common Avionics Changes	Modification Number / Title: 5 / Common Mission Computing and Displays (CMCD) (OSIP 06-20)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Models of Systems Affected: All platforms as directed by OPNAV.	Modification Type: Common Avionics (Modernization)	Related RDT&E PEs:
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Financial Plan	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)

Procurement

<i>Modification Item 1 of 1:</i> Common Mission Computing and Displays (CMCD) (OSIP 06-20)												
B Kits												
Recurring												
2.1.1) CMCD Installation Equipment - Organic ⁽¹⁶⁾	45 / 8.957	39 / 8.029	39 / 8.110	39 / 8.191	- / -	39 / 8.191	17 / 3.605	14 / 2.999	30 / 6.851	34 / 7.464	33 / 7.437	290 / 61.643
<i>Subtotal: Recurring</i>	- / 8.957	- / 8.029	- / 8.110	- / 8.191	- / -	- / 8.191	- / 3.605	- / 2.999	- / 6.851	- / 7.464	- / 7.437	- / 61.643
Non-Recurring												
2.2.1) Installation Equipment Non-Recurring - Organic ⁽¹⁷⁾	- / 29.108	- / 37.591	- / 24.948	- / 17.551	- / -	- / 17.551	- / 9.704	- / 9.701	- / -	- / -	- / -	- / 118.603
<i>Subtotal: Non-Recurring</i>	- / 29.108	- / 37.591	- / 24.948	- / 17.551	- / -	- / 17.551	- / 9.704	- / 9.701	- / -	- / -	- / 0.000	- / 118.603
<i>Subtotal: Common Mission Computing and Displays (CMCD) (OSIP 06-20)</i>	45 / 38.065	39 / 45.620	39 / 33.058	39 / 15.742	- / -	39 / 15.742	17 / 13.309	14 / 12.700	30 / 6.851	34 / 7.464	33 / 7.437	290 / 180.246
<i>Subtotal: Procurement, All Modification Items</i>	- / 38.065	- / 45.620	- / 33.058	- / 15.742	- / -	- / 15.742	- / 13.309	- / 12.700	- / 6.851	- / 7.464	- / 7.437	- / 180.246

Support (All Modification Items)

3.2) Data	- / -	- / -	- / -	- / 12.575	- / -	- / 12.575	- / -	- / -	- / -	- / -	- / -	- / 12.575
3.3) Training Equipment	- / -	- / 10.534	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 10.534
3.5) ILS	- / 10.229	- / 10.277	- / 10.047	- / 10.046	- / -	- / 10.046	- / 10.046	- / 10.047	- / 10.047	- / 10.047	- / 10.046	- / 10.832
3.6) Other Support	- / 124.194	- / 110.968	- / 17.125	- / 15.028	- / -	- / 15.028	- / 3.423	- / 2.935	- / 1.745	- / 1.931	- / 1.949	- / 59.298
<i>Subtotal: Support</i>	- / 24.423	- / 11.779	- / 17.172	- / 7.649	- / -	- / 7.649	- / 3.469	- / 2.982	- / 1.792	- / 1.978	- / 1.995	- / 63.239

Installation

<i>Subtotal: Installation</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
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Total

Total Cost (Procurement + Support + Installation)	62.488	57.399	40.230	23.391	0.000	23.391	16.778	15.682	8.643	9.442	9.432	243.485
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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0577 / Common Avionics Changes	Modification Number / Title: 5 / Common Mission Computing and Displays (CMCD) (OSIP 06-20)
ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:	
Modification Item 1 of 1: Common Mission Computing and Displays (CMCD) (OSIP 06-20)		

Footnotes:

- ⁽¹⁶⁾ No Installation Kit (A-Kit) Procurement or Installs associated with Installation Equipment (B-Kit) Procurement. FY27-FY28: Installation Equipment (B-Kit) procurement increase is due to T-45C technology refreshes. The Mission Computer Alternative (MCA) family of systems is a culmination of nine Commercial Off the Shelf (COTS) cards in one avionics chassis. It is forecasted that between one and three cards will need technology refresh. These separate cards present as a high number of B-Kit procurements. In FY28 it's forecasted that a Government Off the Shelf (GOTS) cards will also require technology refresh.
- ⁽¹⁷⁾ FY23-FY24: Installation Equipment Non-Recurring Engineering (B-Kit NRE) decrease is due to the completion of the E-2D Software Integration.

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0577 / Common Avionics Changes	Modification Number / Title: 6 / Global Positioning System (GPS) Modernization (OSIP 04-25)

ID Code (A=Service Ready, B=Not Service Ready) : _____ **MDAP/MAIS Code:** _____

Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	0.000	0.000	0.000	0.000	0.000	0.000	97.690	89.446	112.826	111.828	302.521	714.311
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	0.000	0.000	0.000	0.000	0.000	0.000	97.690	89.446	112.826	111.828	302.521	714.311
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	0.000	0.000	0.000	0.000	0.000	0.000	97.690	89.446	112.826	111.828	302.521	714.311

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

DESCRIPTION:

Global Positioning System (GPS) Modernization funds the Navy's procurement and installation of M-Code GPS receivers being developed by the Air Force Material Command's Positioning, Navigation, Timing Program Office (PNT PO) Embedded GPS Inertial M-Code (EGI-M) and the Miniaturized Advanced GPS Receiver 2000 M-Code (MAGR2K-M) programs and ultimately into all Naval Air platforms. Integration of these receivers address emerging threats to GPS by providing access to the new GPS M-Code signal. This effort supports Navy's compliance with Public Law 111-383, which requires that all GPS user equipment be capable of receiving the new GPS M-Code signal after FY 2017.

Research, Development, Test, and Evaluation, Navy for this effort is funded under program element 0604280N.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

PEO C4I approved Project Definition Document (PDD) 9 November 2016, PDD updated and signed 15 April 2021; Prime Vendor (Bell Boeing) Integration contract to support MAGR2K-M integration on MV-22B/CMV-22B awarded 4Q/FY21. Operational Evaluation is planned for Q1/FY24 for E-6B and 2Q/FY24 for MV-22B/CMV-22B. Prime Vendor integration contract awards are expected 2Q/FY24 for F/A-18E/F & EA-18G, 3Q/FY23 for CH-53K, 4Q/FY25 for UH-1Y/AH-1Z EGI-M, and all other platform efforts are dependent upon developmental schedules in FY25-FY28.

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0577 / Common Avionics Changes	Modification Number / Title: 6 / Global Positioning System (GPS) Modernization (OSIP 04-25)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Models of Systems Affected: All Aircraft as directed by OPNAV	Modification Type: Common Avionics (Modernization)	Related RDT&E PEs: 0604280N
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Financial Plan	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Procurement												
<i>Modification Item 1 of 1:</i> Global Positioning System (GPS) Modernization (OSIP 04-25)												
B Kits												
Recurring												
2.1.1) GPS Modernization Installation Equipment (MAGR2K-M/EGI-M) - Organic ⁽¹⁸⁾	- / -	- / -	- / -	- / -	- / -	- / -	267 / 97.318	250 / 88.614	300 / 111.542	297 / 110.380	1,102 / 268.532	2,216 / 676.386
<i>Subtotal: Recurring</i>	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / 97.318	- / 88.614	- / 111.542	- / 110.380	- / 268.532	- / 676.386
<i>Subtotal: Global Positioning System (GPS) Modernization (OSIP 04-25)</i>	- / -	- / -	- / -	- / -	- / -	- / -	267 / 97.318	250 / 88.614	300 / 111.542	297 / 110.380	1,102 / 268.532	2,216 / 676.386
<i>Subtotal: Procurement, All Modification Items</i>	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / 97.318	- / 88.614	- / 111.542	- / 110.380	- / 268.532	- / 676.386
Support (All Modification Items)												
3.5) ILS ⁽¹⁹⁾	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.152	- / 0.165	- / 0.399	- / 0.405	- / 7.854	- / 8.975
3.6) Other Support ⁽²⁰⁾	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.220	- / 0.667	- / 0.885	- / 1.043	- / 26.135	- / 28.950
<i>Subtotal: Support</i>	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / 0.372	- / 0.832	- / 1.284	- / 1.448	- / 33.989	- / 37.925
Installation												
<i>Subtotal: Installation</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total												
Total Cost (Procurement + Support + Installation)	0.000	0.000	0.000	0.000	0.000	0.000	97.690	89.446	112.826	111.828	302.521	714.311

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0577 / Common Avionics Changes	Modification Number / Title: 6 / Global Positioning System (GPS) Modernization (OSIP 04-25)
ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:	
Modification Item 1 of 1: Global Positioning System (GPS) Modernization (OSIP 04-25)		

Footnotes:

⁽¹⁸⁾ No required Installation Kit (A-Kit) procurement associated with Installation Equipment (B-Kit) procurement except for AH-1Z/UH-1Y, which are funded by the AH-1Z/UH-1Y program office. FY25-FY27: B-Kit cost increase is due to OSD Program Decision Memorandum (PDM) II and is to accelerate F/A-18E/F and EA-18G M-code. B-Kit cost variations required to support multiple configurations/solutions on numerous T/M/S aircraft quantities and associated equipment and cost of equipment per platform. GPS Modernization will not begin procurements until FY25 for MV-22B/CMV-22B and E-6B. All other platforms will occur later as the development schedule allows.

⁽¹⁹⁾ FY25-FY26: Integrated Logistics Support increase is due to planning and execution of GPS MOD procurements.

⁽²⁰⁾ FY25-FY26: Other Support increase is due to planning and execution of GPS MOD procurements.

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0577 / Common Avionics Changes	Modification Number / Title: 7 / Digital Interoperability for MAGTF Agile Network (OSIP 06-25)

ID Code (A=Service Ready, B=Not Service Ready) :						MDAP/MAIS Code:						
Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	0.000	0.000	0.000	0.000	0.000	0.000	29.243	56.781	91.278	124.000	986.964	1,288.266
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	0.000	0.000	0.000	0.000	0.000	0.000	29.243	56.781	91.278	124.000	986.964	1,288.266
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	0.000	0.000	0.000	0.000	0.000	0.000	29.243	56.781	91.278	124.000	986.964	1,288.266
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Procurement and installation of Digital Interoperability (DI)/Marine Air Ground Taskforce (MAGTF) Agile Networking Gateway Link (MANGL) for MV-22 aircraft and other aircraft as directed by HQ/Marine Corps. Procurement and fielding of DI/MANGL A-Kit, B-Kit and Ancillary Equipment. Digital Interoperability is the United States Marine Corps strategy to bridge multiple generations of technology using three matured capabilities; gateways, software defined radios, and Commercial Off-The-Shelf (COTS) interfaces. This modular integration approach enables iterative migration to advanced waveforms and payloads while providing enhanced digital connectivity between forces using dissimilar technologies. DI/MANGL will enable fleet integration of capabilities on COTS tablets and Government Off-The-Shelf (GOTS) applications. DI/MANGL will also enable logistics tracking and reporting (cargo and personnel) with the use of Radio Frequency Identification technology, advanced Electronic Warfare/Cyber capability, and threat data capturing/off-boarding. The architecture establishes the foundation to enable system performance data off-boarding, as well as data fusion and artificial intelligence augmentation capabilities. Translates messages from one tactical data link to another (i.e. Link 16 to Adaptive Networking Wideband Waveform [ANW2]) with a tactically proven gateway thereby leveraging previous investments. Provides the foundation for Command, Control, Communications, Electromagnetic Spectrum Operations, and Intelligence exploitation of platform/sensor data off-boarding, data fusion, and distributed processing. Enables real-time blue force situational awareness and improved decision-making through the sharing of a Common Operational Picture, including friendly force positions, capabilities, and threat information for both the aircrew and embarked troops. Provides for operations in denied and degraded environments, enables range extension and distributed operations. SRP 2.0 is a single common payload module that is a government configuration controlled architecture, reconfigurable to support simultaneous missions and applications making maximum use of available bandwidth and ensuring interoperability all with a cyber-secure, National Security Agency (NSA) approved, cryptographic solution.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

- Middle-Tier of Acquisition Rapid Prototype Flight Demonstration on MV-22 2Q/FY24 to 4Q/FY24
- MV-22 Initial Fielding Approval 2Q/FY25
- Middle-Tier of Acquisition Rapid Prototype Flight Demonstration on CH-53K & KC-130J 3Q/FY25 to 4Q/FY25
- CH-53K and KC-130J Fielding Approval 1Q/FY26

NOTE: DI/MANGL (OSIP 06-25) is not a new start. OSIP reprogrammed from PMA275 BLI 0590 FY23-FY28 and will leverage previous efforts to produce and certify a Digital Interoperability (DI)/Marine Air Ground Task Force (MAGTF) Agile Network Gateway Link (MANGL). This OSIP will be used to support the commonality of DI/MANGL, resulting in zero sum realignment with no new start. Headquarters Marine Corps (HQMC) added funding for program wholeness in POM23 for each year in the FYDP. Digital Interoperability (DI) - Marine Air-Ground Task Force (MAGTF) Agile Networking Gateway Link (MANGL) technical correction to address development of the Software Reconfigurable Payload (SRP) caused by FAA and NSA delays in certification of incorporated waveforms. POM23 and POM24 realigned FY23 and

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0577 / Common Avionics Changes	Modification Number / Title: 7 / Digital Interoperability for MAGTF Agile Network (OSIP 06-25)
ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:	
FY24 funding from APN to RDT&E (PE 0605217N) to cover the wholeness issues regarding Software Reconfigurable Payload (SRP) Development Waveform Certifications and is a zero sum realignment of FY24-FY28 funds to align correct appropriated funding to ensure the DI-MANGL portfolio is tracking to meet warfighter requirements using correct appropriation.		

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Exhibit P-3a, Individual Modification: PB 2024 Navy										Date: March 2023				
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0577 / Common Avionics Changes					Modification Number / Title: 7 / Digital Interoperability for MAGTF Agile Network (OSIP 06-25)				
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:							
Models of Systems Affected: MV-22 and all platforms as directed by HQ/Marine Corps.					Modification Type: Common Avionics (Modernization)					Related RDT&E PEs: 0605217N				
Financial Plan	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total		
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)		
Procurement														
<i>Modification Item 1 of 1:</i> Digital Interoperability for MAGTF Agile Network (OSIP 06-25)														
A Kits														
Recurring														
1.1.1) Digital Interoperability MAGTF Installation Kit - NonOrganic ⁽²¹⁾	- / -	- / -	- / -	- / -	- / -	- / -	12 / 8.629	21 / 15.403	30 / 22.445	47 / 35.867	346 / 269.323	456 / 351.667		
<i>Subtotal: Recurring</i>	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / 8.629	- / 15.403	- / 22.445	- / 35.867	- / 269.323	- / 351.667		
B Kits														
Recurring														
2.1.1) Digital Interoperability MAGTF Installation Equipment - Organic ⁽²²⁾	- / -	- / -	- / -	- / -	- / -	- / -	12 / 16.528	21 / 29.502	30 / 42.988	47 / 76.467	346 / 618.120	456 / 783.605		
<i>Subtotal: Recurring</i>	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / 16.528	- / 29.502	- / 42.988	- / 76.467	- / 618.120	- / 783.605		
Non-Recurring														
2.2.1) Installation Equipment N/R - Organic ⁽²³⁾	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.874	- / -	- / -	- / -	- / -	- / 0.874		
<i>Subtotal: Non-Recurring</i>	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / 0.874	- / -	- / -	- / -	- / 0.000	- / 0.874		
<i>Subtotal: Digital Interoperability for MAGTF Agile Network (OSIP 06-25)</i>	- / -	- / -	- / -	- / -	- / -	- / -	24 / 26.031	42 / 44.905	60 / 65.433	94 / 112.334	692 / 887.443	912 / 1,136.146		
<i>Subtotal: Procurement, All Modification Items</i>	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / 26.031	- / 44.905	- / 65.433	- / 112.334	- / 887.443	- / 1,136.146		
Support (All Modification Items)														
3.3) Training Equipment ⁽²⁴⁾	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 5.491	6 / 16.723	- / -	- / -	8 / 22.214		
3.4) Support Equipment ⁽²⁵⁾	- / -	- / -	- / -	- / -	- / -	- / -	4 / 0.497	16 / 2.029	19 / 2.457	24 / 3.122	130 / 3.184	193 / 11.289		
3.5) ILS ⁽²⁶⁾	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.494	- / 0.504	- / 0.514	- / 0.524	- / 2.605	- / 4.641		
3.6) Other Support ⁽²⁷⁾	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.221	- / 2.149	- / 3.111	- / 3.590	- / 34.542	- / 45.613		
<i>Subtotal: Support</i>	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / 3.212	- / 10.173	- / 22.805	- / 7.236	- / 40.331	- / 83.757		
Installation														
<i>Modification Item 1 of 1:</i> Digital Interoperability for MAGTF Agile Network (OSIP 06-25)	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 1.703	- / 3.040	- / 4.430	- / 59.190	- / 68.363		
<i>Subtotal: Installation</i>	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.703	- / 3.040	- / 4.430	- / 59.190	- / 68.363		

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0577 / Common Avionics Changes	Modification Number / Title: 7 / Digital Interoperability for MAGTF Agile Network (OSIP 06-25)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Models of Systems Affected: MV-22 and all platforms as directed by HQ/Marine Corps. **Modification Type:** Common Avionics (Modernization) **Related RDT&E PEs:** 0605217N

Financial Plan	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Total												
Total Cost (Procurement + Support + Installation)	0.000	0.000	0.000	0.000	0.000	0.000	29.243	56.781	91.278	124.000	986.964	1,288.266

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0577 / Common Avionics Changes	Modification Number / Title: 7 / Digital Interoperability for MAGTF Agile Network (OSIP 06-25)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Modification Item 1 of 1: Digital Interoperability for MAGTF Agile Network (OSIP 06-25)

Manufacturer Information

Manufacturer Name: Bell Boeing ⁽²⁸⁾	Manufacturer Location: St. Louis, Missouri
Administrative Leadtime (in Months): 6	Production Leadtime (in Months): 10

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates				Mar 2025	Mar 2026	Mar 2027	Mar 2028
Delivery Dates				Jan 2026	Jan 2027	Jan 2028	Jan 2029

Installation Information

Method of Implementation: Digital Interoperability Kits:: Installation Name: Digital Interoperability MAGTF Installation Kit

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	9 / 1.703	3 / 0.480	- / -	0 / 0.000	12 / 2.183
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	16 / 2.560	5 / 0.791	0 / 0.000	21 / 3.351
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	23 / 3.639	7 / 1.036	30 / 4.675
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	47 / 6.955	47 / 6.955
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	346 / 51.199	346 / 51.199
Total	- / -	- / -	- / -	- / -	- / -	- / -	- / -	9 / 1.703	19 / 3.040	28 / 4.430	400 / 59.190	456 / 68.363

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	3	3	3	6	5	5	5	8	8	7	400	456
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	3	3	3	6	5	5	5	8	8	7	400	456

Method of Implementation (Organic): Digital Interoperability MAGTF Installation Equipment - Not Installed **Installation Quantity:** 456

Footnotes:

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0577 / Common Avionics Changes	Modification Number / Title: 7 / Digital Interoperability for MAGTF Agile Network (OSIP 06-25)
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:
<p>(21) FY25-FY28: Installation Kit (A-Kit) increase is due to improvements to A-Kit components to address technical requirements to include upgraded waveform amplifiers and configuration items for Link16. Procurement quantities were adjusted in coordination with Headquarters Marine Corps (HQMC) direction and platform program office aircraft modification schedules to accelerate MV-22B fielding from a 30-year schedule to a 10-year schedule and to add procurements for CH-53K and KC-130J aircraft.</p> <p>(22) FY25-FY28: Installation Equipment (B-Kit) increase is due to procurement quantities adjusted in coordination with Headquarters Marine Corps (HQMC) direction and platform program office aircraft modification schedules to accelerate MV-22B fielding from a 30-year schedule to a 10-year schedule and to add procurements for CH-53K and KC-130J aircraft.</p> <p>(23) FY25: Installation Equipment Non-Recurring Engineering (B-Kit N/R) increase facilitates engineering changes to Installation Kits (B-Kit) items required for integration into additional Type/Model/Series aircraft to include CH-53K and KC-130J. The original Link 16 Configuration Item is being replaced by another B-Kit component to provide Link 16 capability. Changes to the planned aircraft location and aircraft prep for B-Kit installations require the plus up to B-Kit N/R.</p> <p>(24) FY26-FY27: Training Equipment is for trainers to be located at multiple field locations to train maintenance personnel on the KC-130J.</p> <p>(25) FY25-FY28: Support Equipment increase is due to (4 per squadron) support user interface with installed DI MANGL equipment. Procurement quantities were adjusted in coordination with Headquarters Marine Corps (HQMC) direction and platform program office aircraft modification schedules to accelerate MV-22B fielding from a 30-year schedule to a 10-year schedule and to add procurements for CH-53K and KC-130J aircraft.</p> <p>(26) FY25-To Complete: ILS for systems ordered in FY25 begins upon installation in fleet aircraft in FY26. DI MANGL program activities for FY25 include test and evaluation as well as validation and verification of the installation kits and procedures on the MV-22B.</p> <p>(27) FY25-FY26: Other Support is for planning and execution of DI MANGL procurements and installations for additional Type/Model/Series aircraft to include CH-53K and KC-130J.</p> <p>(28) FY26-FY27: Installation Kits (A-Kit) Installations increase is due to evolving Installation kit modification during integration drives an increase in the complexity of the installation due to the change in the Link16 component and related changes to component locations in the MV-22B. Additional funding is required for the early years of installation (FY25 had been accounted for in the original plan, adding impacts to FY26 and FY27 here) until learning curve benefits take effect and stabilize the cost at a steady state rate.</p>		

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Exhibit P-3a, Individual Modification: PB 2024 Navy	Date: March 2023
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Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0577 / Common Avionics Changes	Modification Number / Title: 8 / Inactive OSIPs
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ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	1,103.435	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1,103.435
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	1,103.435	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1,103.435
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	1,103.435	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1,103.435

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Inactive OSIPs prior year totals.

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Exhibit P-3a, Individual Modification: PB 2024 Navy											Date: March 2023	
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0577 / Common Avionics Changes					Modification Number / Title: 8 / Inactive OSIPs			
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:					
Models of Systems Affected: [No Model Specified]				Modification Type: TBD				Related RDT&E PEs:				
Financial Plan <small>(*) Indicates the modification is being installed organically and no installation funds are required.</small>	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>
Procurement												
1.1.2 Inactive OSIPs - Organic ^(*)	- / 1,103.435	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1,103.435
<i>Subtotal: Procurement</i>	- / 1,103.435	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 1,103.435
Installation												
<i>Subtotal: Installation</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total												
Total Cost (Procurement + Support + Installation)	1,103.435	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1,103.435

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Exhibit P-40, Budget Line Item Justification: PB 2024 Navy **Date:** March 2023

Appropriation / Budget Activity / Budget Sub Activity: 1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft	P-1 Line Item Number / Title: 0581 / Common Defensive Weapon System
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	100.311	5.422	6.373	6.585	0.000	6.585	6.064	6.137	6.273	6.538	-	143.703
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	100.311	5.422	6.373	6.585	0.000	6.585	6.064	6.137	6.273	6.538	-	143.703
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	100.311	5.422	6.373	6.585	0.000	6.585	6.064	6.137	6.273	6.538	-	143.703

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The Common Defensive Weapon System (CDWS) consists of a GAU-21 .50 caliber Machine Gun, cradle, ammo box, feed/link chutes and a platform specific mount system for US Navy and Marine Corps assault and assault support helicopter platforms to include the MV-22, CH-53E/K, UH-1Y, and the MH-60 R/S. This budget procures and replaces the one for one weapon as it is determined to be Beyond Capable Maintenance (BCM), to the fleet forces. CDWS modifications enhance the warfighters overall capability by providing a safer, more reliable and accurate weapon system with a higher rate of fire. For the CH-53K, which is in production, procurement of the Ramp, Door and Window mounted CDWS may be procured. Funding also supports modification and improvements of Crew Served Weapons and Weapon Systems, the GAU-21, GAU-17 (M134), and M240D.

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Exhibit P-40, Budget Line Item Justification: PB 2024 Navy **Date:** March 2023

Appropriation / Budget Activity / Budget Sub Activity: 1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft	P-1 Line Item Number / Title: 0581 / Common Defensive Weapon System
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	1 / COMMON DEFENSE WEAPON SYSTEM (OSIP 003-06) (MISSION/MISSION ENHANCEMENT)				- / 90.675	- / 5.422	- / 6.373	- / 6.585	- / 0.000	- / 6.585
P-3a	2 / INACTIVE OSIP/DAWDF Realignment (TBD)				- / 9.636	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000
P-40	Total Gross/Weapon System Cost				- / 100.311	- / 5.422	- / 6.373	- / 6.585	- / 0.000	- / 6.585

Exhibits Schedule					FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	1 / COMMON DEFENSE WEAPON SYSTEM (OSIP 003-06) (MISSION/MISSION ENHANCEMENT)				- / 6.064	- / 6.137	- / 6.273	- / 6.538	- / 0.000	- / 134.067
P-3a	2 / INACTIVE OSIP/DAWDF Realignment (TBD)				- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 9.636
P-40	Total Gross/Weapon System Cost				- / 6.064	- / 6.137	- / 6.273	- / 6.538	- / -	- / 143.703

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.
 Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

Justification:
 FY 2024 request will procure 132 GAU-21 machine guns, 155 M240 machine guns, and all associated support.

In addition, FY 2024 request supports Non-Recurring Engineering to support Common Defense Weapon System (CDWS) Validation and Verification efforts associated with Engineering Change Proposals (ECP's) to the weapon system. This includes updates to tech data packages and provisioning requirements as needed in direct support of modification.

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0581 / Common Defensive Weapon System	Modification Number / Title: 1 / COMMON DEFENSE WEAPON SYSTEM (OSIP 003-06)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	90.675	5.422	6.373	6.585	0.000	6.585	6.064	6.137	6.273	6.538	0.000	134.067
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	90.675	5.422	6.373	6.585	0.000	6.585	6.064	6.137	6.273	6.538	0.000	134.067
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	90.675	5.422	6.373	6.585	0.000	6.585	6.064	6.137	6.273	6.538	0.000	134.067

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

DESCRIPTION/JUSTIFICATION: The Common Defensive Weapon System (CDWS) consists of a GAU-21 .50 caliber Machine Gun, cradle, ammo box, feed/link chutes and a platform specific mount system for US Navy and Marine Corps assault and assault support helicopter platforms to include the MV-22, CH-53E/K, UH-1Y, and the MH-60 R/S. This budget procures and replaces the one for one weapon as it is determined to be beyond repair, to the fleet forces. CDWS was procured to replace obsolete GAU-16 and XM-218 .50 caliber Machine Guns. CDWS enhances the warfighters overall capability by providing a safer, more reliable and accurate weapon system with a higher rate of fire.

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Exhibit P-3a, Individual Modification: PB 2024 Navy										Date: March 2023			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0581 / Common Defensive Weapon System					Modification Number / Title: 1 / COMMON DEFENSE WEAPON SYSTEM (OSIP 003-06)			
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: CH-53D/E/K, UH-1Y, MV-22				Modification Type: MISSION/MISSION ENHANCEMENT				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
<i>Modification Item 1 of 1:</i> COMMON DEFENSE WEAPON SYSTEM (OSIP 003-06)													
A Kits													
Recurring													
1.1.1) MV-22 - Organic	368 / 19.665	18 / 1.308	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	386 / 20.973	
1.1.2) GAU-21 - Organic ⁽¹⁾	279 / 6.794	80 / 2.017	108 / 2.777	132 / 3.447	- / -	132 / 3.447	134 / 3.515	142 / 3.805	142 / 3.880	145 / 4.141	- / -	1,162 / 30.376	
1.1.3) M240 - Organic	283 / 2.591	129 / 1.273	121 / 1.069	155 / 1.396	- / -	155 / 1.396	153 / 1.406	172 / 1.612	173 / 1.654	171 / 1.676	- / -	1,357 / 12.677	
1.1.4) Archived Mods - Organic	1,329 / 43.200	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1,329 / 43.200	
<i>Subtotal: Recurring</i>	- / 72.250	- / 4.598	- / 3.846	- / 4.843	- / -	- / 4.843	- / 4.921	- / 5.417	- / 5.534	- / 5.817	- / 0.000	- / 107.226	
B Kits													
Recurring													
2.1.1) Archived B Kits - Organic	415 / 6.659	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	415 / 6.659	
<i>Subtotal: Recurring</i>	- / 6.659	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 6.659	
<i>Subtotal: COMMON DEFENSE WEAPON SYSTEM (OSIP 003-06)</i>	2,674 / 78.909	227 / 4.598	229 / 3.846	287 / 4.843	- / -	287 / 4.843	287 / 4.921	314 / 5.417	315 / 5.534	316 / 5.817	- / -	4,649 / 113.885	
<i>Subtotal: Procurement, All Modification Items</i>	- / 78.909	- / 4.598	- / 3.846	- / 4.843	- / -	- / 4.843	- / 4.921	- / 5.417	- / 5.534	- / 5.817	- / 0.000	- / 113.885	
Support (All Modification Items)													
3.1) Data	- / 0.400	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.400	
3.2) Support Equipment	- / 1.700	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.700	
3.3) ILS	- / 2.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.000	
3.4) Other Support	- / 6.553	- / 0.824	- / 0.629	- / 0.654	- / -	- / 0.654	- / 0.664	- / 0.720	- / 0.739	- / 0.721	- / -	- / 11.504	
3.5) Non-Recurring Engineering ⁽²⁾	- / 1.113	- / -	- / 1.898	- / 1.088	- / -	- / 1.088	- / 0.479	- / -	- / -	- / -	- / -	- / 14.578	
<i>Subtotal: Support</i>	- / 11.766	- / 0.824	- / 2.527	- / 1.742	- / -	- / 1.742	- / 1.143	- / 0.720	- / 0.739	- / 0.721	- / 0.000	- / 20.182	
Installation													
<i>Subtotal: Installation</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
Total													
Total Cost (Procurement + Support + Installation)	90.675	5.422	6.373	6.585	0.000	6.585	6.064	6.137	6.273	6.538	0.000	134.067	

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0581 / Common Defensive Weapon System	Modification Number / Title: 1 / COMMON DEFENSE WEAPON SYSTEM (OSIP 003-06)
ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:	
Modification Item 1 of 1: COMMON DEFENSE WEAPON SYSTEM (OSIP 003-06)		

Footnotes:
(1) GAU-21 / M240D - Based on logistics 6B cognizant authority, quantity demand has sustained current demands for the GAU-21's and M240D's for FY 2024 through FY 2028.
(2) Non-Recurring Engineering - FY 2024 includes multiple Common Defensive Weapons System improvements on the MV-22 to move from a 100 round to an increased 300 round ammo can upgrade, an improved quick release pin for the MV-22 system to prevent pin failure and Things Falling Off Aircraft (TFOA), the IZLID Ultra laser to replace the IZLID 200P, and the removal and replacement for an improved laser CAP to prevent TFOA's. Addition of the GAU-21 Automated Shot Counter, to improve rounds count accuracy and reduce the potential for inaccurate logbooks and early life limit penalization.

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Exhibit P-3a, Individual Modification: PB 2024 Navy							Date: March 2023					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0581 / Common Defensive Weapon System				Modification Number / Title: 2 / INACTIVE OSIP/DAWDF Realignment				

ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:					
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Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	9.636	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	9.636
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	9.636	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	9.636
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	9.636	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	9.636

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Inactive OSIPs prior year totals.

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0581 / Common Defensive Weapon System	Modification Number / Title: 2 / INACTIVE OSIP/DAWDF Realignment

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Models of Systems Affected: [No Model Specified]	Modification Type: TBD	Related RDT&E PEs:
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Financial Plan <small>(*) Indicates the modification is being installed organically and no installation funds are required.</small>	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Procurement												
1.1) Inactive OSIP/DAWDF Realignment - Organic ^(*)	- / 9.636	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 9.636
<i>Subtotal: Procurement</i>	- / 9.636	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 9.636
Installation												
<i>Subtotal: Installation</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total												
Total Cost (Procurement + Support + Installation)	9.636	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	9.636

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Exhibit P-40, Budget Line Item Justification: PB 2024 Navy **Date:** March 2023

Appropriation / Budget Activity / Budget Sub Activity: 1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft	P-1 Line Item Number / Title: 0582 / ID Sys
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	478.815	13.100	3.828	13.085	0.000	13.085	7.047	3.457	3.763	3.905	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	478.815	13.100	3.828	13.085	0.000	13.085	7.047	3.457	3.763	3.905	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	478.815	13.100	3.828	13.085	0.000	13.085	7.047	3.457	3.763	3.905	Continuing	Continuing

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

MARK (MK) XIIA Mode 5 provides improved secure cooperative combat identification via the Identification Friend or Foe (IFF) system. Mode 5 compatibility is part of the Combat Identification Family of Systems strategy employed by US and North Atlantic Treaty Organization/Allied forces and will improve situational awareness, reduce fratricide, reduce enemy disruption of IFF functions and ensure the safe return of friendly aircraft. The DoD implementation is governed by AIMS 03-1000A, AIMS 03-1000B and USN requirements defined in ORD 577-06-01 and is designed to be compatible with civilian IFF modes to ensure interoperability of military and civilian aircraft. Mode 5 is a product improvement, which is designed to be installed through engineering changes to digital MARK XII IFF Systems (interrogators and transponders) and their associated cryptographic material on all type/model/series aircraft. Joint Requirements Oversight Council Memorandums (047-07, 122-08 and 108-13) endorsed an Identification Friend or Foe (IFF) Mode 5 Joint Full Operational Capability in 2020. Not all aircraft requiring Mode 5 completed installations by 2020. Installations will continue through FY 2024.

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Exhibit P-40, Budget Line Item Justification: PB 2024 Navy **Date:** March 2023

Appropriation / Budget Activity / Budget Sub Activity: 1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft	P-1 Line Item Number / Title: 0582 / ID Sys
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	1 / Mark XIIA Mode 5 IFF (OSIP 15-03) (Capability Improvement)				- / 478.815	- / 13.100	- / 3.828	- / 13.085	- / 0.000	- / 13.085
P-40	Total Gross/Weapon System Cost				- / 478.815	- / 13.100	- / 3.828	- / 13.085	- / 0.000	- / 13.085

Exhibits Schedule					FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	1 / Mark XIIA Mode 5 IFF (OSIP 15-03) (Capability Improvement)				- / 7.047	- / 3.457	- / 3.763	- / 3.905	Continuing	Continuing
P-40	Total Gross/Weapon System Cost				- / 7.047	- / 3.457	- / 3.763	- / 3.905	Continuing	Continuing

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

Justification:
 Joint Requirements Oversight Council Memorandums (047-07, 122-08 and 108-13) endorsed an Identification Friend or Foe (IFF) Mode 5 Joint Full Operational Capability in 2020. Navy Initial Operational Capability was achieved in FY 2012. As of 30 June 2020, the NSA no longer supports IFF Mode 4 keying material. Mode 5 provides added security and more data transmissions than Mode 4. Additionally, Mode 5 uses a spread spectrum waveform, which reduces susceptibility to interference.

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0582 / ID Sys	Modification Number / Title: 1 / Mark XIIA Mode 5 IFF (OSIP 15-03)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	478.815	13.100	3.828	13.085	0.000	13.085	7.047	3.457	3.763	3.905	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	478.815	13.100	3.828	13.085	0.000	13.085	7.047	3.457	3.763	3.905	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	478.815	13.100	3.828	13.085	0.000	13.085	7.047	3.457	3.763	3.905	Continuing	Continuing

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

DESCRIPTION/JUSTIFICATION: MK XIIA Mode 5 provides improved secure cooperative combat identification via a two-way encrypted datalink known as Identification Friend or Foe (IFF). Mode 5 compatibility is part of the Combat Identification Family of Systems strategy employed by US and North Atlantic Treaty Organization (NATO)/Allied forces and improves situational awareness, reduces fratricide, reduces enemy disruption of IFF functions and ensures the safe return of friendly aircraft. The DoD implementation is governed by AIMS 03-1000A, AIMS 03-1000B and USN requirements defined in ORD # 577-06-01 and is designed to be compatible with civilian IFF modes ensuring interoperability of military and civilian aircraft. Mode 5 upgrades and/or replaces existing Mode 4 IFF equipment, including cryptography, support equipment, and associated hardware and software changes. Mode 5 is designed to be installed through engineering changes to digital MARK XII interrogators and transponders and their associated cryptographic material including, but not limited to, the AN/APX-118/123/123A, AN/APX-111, and AN/APX-119. Joint Requirements Oversight Council Memorandums (047-07, 122-08 and 108-13) endorsed a Joint Full Operational Capability (JFOC) in 2020. Navy IOC was achieved in FY12. Mode 5 continues to be installed in Navy/Marine Corp/Coast Guard Type/Model/Series aircraft which are currently Mode 4 IFF capable with retrofit phasing through FY24.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: Milestone C and Low Rate Initial Production was approved in July 2006. Full Rate Production (FRP) was approved July 2012. FRP procurements and Mode 5 Engineering Change Proposals on Navy/Marine Corp aircraft continue as the program continues. Not all aircraft requiring Mode 5 will be equipped by the end of 2020. USN forward-deployed aircraft are fully Mode 5 capable. Aircraft will continue to be retrofit through FY24 at Depot and O-Level as availability allows.

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Exhibit P-3a, Individual Modification: PB 2024 Navy										Date: March 2023			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0582 / ID Sys					Modification Number / Title: 1 / Mark XIIA Mode 5 IFF (OSIP 15-03)			
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: Various (49 Separate T/ M/S)					Modification Type: Capability Improvement				Related RDT&E PEs: 0604777N				
Financial Plan	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
Modification Item 1 of 1: Mark XIIA Mode 5 IFF (OSIP 15-03)													
A Kits													
Recurring													
1.1.1) Mode 5 IFF - NonOrganic	613 / 9.070	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	613 / 9.070	
Subtotal: Recurring	- / 9.070	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 9.070	
B Kits													
Recurring													
2.1.1) Mode 5 IFF - NonOrganic ⁽¹⁾	3,079 / 169.787	129 / 8.340	40 / 2.586	93 / 7.799	- / -	93 / 7.799	25 / 1.834	15 / 1.759	- / -	- / -	- / -	3,381 / 192.105	
Subtotal: Recurring	- / 169.787	- / 8.340	- / 2.586	- / 7.799	- / -	- / 7.799	- / 1.834	- / 1.759	- / -	- / -	- / 0.000	- / 192.105	
Non-Recurring													
2.2.1) Installation Equipment N/R - Organic ⁽²⁾	- / 134.422	- / -	- / -	- / 3.443	- / -	- / 3.443	- / 3.358	- / 0.720	- / 2.222	- / 2.290	Continuing	Continuing	
Subtotal: Non-Recurring	- / 134.422	- / -	- / -	- / 3.443	- / -	- / 3.443	- / 3.358	- / 0.720	- / 2.222	- / 2.290	Continuing	Continuing	
Subtotal: Mark XIIA Mode 5 IFF (OSIP 15-03)	3,692 / 313.279	129 / 8.340	40 / 2.586	93 / 11.242	- / -	93 / 11.242	25 / 5.192	15 / 2.479	- / 2.222	- / 2.290	Continuing	Continuing	
Subtotal: Procurement, All Modification Items	- / 313.279	- / 8.340	- / 2.586	- / 11.242	- / -	- / 11.242	- / 5.192	- / 2.479	- / 2.222	- / 2.290	Continuing	Continuing	
Support (All Modification Items)													
3.1) Data	- / 4.335	- / 0.164	- / 0.049	- / 0.035	- / -	- / 0.035	- / 0.035	- / 0.035	- / 0.035	- / 0.035	Continuing	Continuing	
3.2) Training Equipment ⁽³⁾	- / 9.155	- / 0.113	- / 0.010	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 9.278	
3.3) Support Equipment	- / 17.627	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 17.627	
3.4) ILS ⁽⁴⁾	- / 18.335	- / 0.802	- / 0.470	- / 0.479	- / -	- / 0.479	- / 0.490	- / 0.500	- / 0.510	- / 0.520	Continuing	Continuing	
3.5) Other Support ⁽⁵⁾	- / 95.558	- / 3.239	- / 0.673	- / 1.319	- / -	- / 1.319	- / 1.320	- / 0.433	- / 0.986	- / 1.060	Continuing	Continuing	
Subtotal: Support	- / 145.010	- / 4.318	- / 1.202	- / 1.833	- / -	- / 1.833	- / 1.845	- / 0.968	- / 1.531	- / 1.615	Continuing	Continuing	
Installation													
Modification Item 1 of 1: Mark XIIA Mode 5 IFF (OSIP 15-03)	- / 20.526	- / 0.442	- / 0.040	- / 0.010	- / 0.000	- / 0.010	- / 0.010	- / 0.010	- / 0.010	- / 0.000	- / 0.010	- / 21.058	
Subtotal: Installation	- / 20.526	- / 0.442	- / 0.040	- / 0.010	- / -	- / 0.010	- / 0.010	- / 0.010	- / 0.010	- / -	- / 0.010	- / 21.058	
Total													
Total Cost (Procurement + Support + Installation)	478.815	13.100	3.828	13.085	0.000	13.085	7.047	3.457	3.763	3.905	Continuing	Continuing	

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0582 / ID Sys	Modification Number / Title: 1 / Mark XIIA Mode 5 IFF (OSIP 15-03)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Modification Item 1 of 1: Mark XIIA Mode 5 IFF (OSIP 15-03)

Manufacturer Information

Manufacturer Name: BAE	Manufacturer Location: Greenlawn, NY
Administrative Leadtime (in Months): 3	Production Leadtime (in Months): 12

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates	Dec 2021	Dec 2022	Dec 2023	Dec 2024	Dec 2025		
Delivery Dates	Dec 2022	Dec 2023	Dec 2024	Dec 2025	Dec 2026		

Installation Information

Method of Implementation: Field Installs Kits and Vendor Depot ECP Install:: Installation Name: Mark XIIA Mode 5 IFF

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	3,399 / 20.526	293 / 0.442	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	3,692 / 20.968
FY 2022	- / -	- / -	129 / 0.040	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	129 / 0.040
FY 2023	- / -	- / -	- / -	40 / 0.010	0 / 0.000	40 / 0.010	- / -	- / -	- / -	- / -	0 / 0.000	40 / 0.010
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	93 / 0.010	- / -	- / -	- / -	0 / 0.000	93 / 0.010
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	25 / 0.010	- / -	- / -	0 / 0.000	25 / 0.010
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	11 / 0.010	- / -	4 / 0.010	15 / 0.020
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	3,399 / 20.526	293 / 0.442	129 / 0.040	40 / 0.010	0 / 0.000	40 / 0.010	93 / 0.010	25 / 0.010	11 / 0.010	- / -	4 / 0.010	3,994 / 21.058

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	3,399	73	73	73	74	33	32	32	32	10	10	10	10	23	24	23	23	7	7	8	3	6	5	-	-	-	-	-	-	4	3,994
Out	3,399	73	73	73	74	33	32	32	32	10	10	10	10	23	24	23	23	7	7	8	3	6	5	-	-	-	-	-	-	4	3,994

Footnotes:
 (1) B-kit total quantity decrease due to reduced retrofit quantities of RT Kits for F/A-18 & EA-18G attributed to aircraft sunset and attrition. Inventory Objective is 3381. Unit cost increase from FY23 to FY24 is due to all planned AN/APX-123/123A and AN/APX-119 boxes/kits have been procured and remaining procurements are exclusively RT Kits for F/A-18 & EA-18G retrofit of -40 configuration of AN/APX-111.
 (2) B-Kit Install Equipment N/R costs in FY24-FY26 support an Engineering Change Proposal (ECP) to the AN/APX-123/123A equipment to address component obsolescence issues, and new IFF performance standards (AIMS 17-1000 specification changes). AN/APX-123/123A is 15 years into its lifecycle and sustainment requires hardware and software changes to the current configuration to ensure supportability

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0582 / ID Sys	Modification Number / Title: 1 / Mark XIIA Mode 5 IFF (OSIP 15-03)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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across the USN air and ship platforms that use this equipment as their Mode 5 transponder solution. B-Kit Install Equip Non-Recurring estimates are based on the specific platform implementation; thus, costs will vary year to year and have increased overall due to lab, ground and flight tests associated with -30 CIT Built-In-Test faults affecting equipment performance in F/A-18 aircraft, and additional test costs for -40 CIT certification efforts to support fleet introduction.

(3) Training costs are estimated based on platform requirements, e.g. operational, maintenance or computer-based), and phased according to the platform schedule.

(4) ILS Costs are estimated based on platform requirements and phasing and increase as more platforms execute Mode 5 upgrades in a given year.

(5) Other Support Cost increase from FY23 to FY24 due to the significant required effort to address AN/APX-123A(V) obsolescence. Fleet wide demand significantly outweighs current available APX-123A. Increased funding in FY24-25 addresses an Engineering Change Proposal (ECP) to the equipment to ensure continued sustainability for the fleet. The engineering and program support costs in FY24-25 initiate hardware and software changes to the equipment including initial test and certification of the new hardware and software configuration of the AN/APX-123A(V) into USN air platforms as required.

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Exhibit P-40, Budget Line Item Justification: PB 2024 Navy **Date:** March 2023

Appropriation / Budget Activity / Budget Sub Activity: 1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft	P-1 Line Item Number / Title: 0586 / P-8 Series
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: 0605504N, 0605500N
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	315.896	115.940	241.987	316.168	0.000	316.168	373.473	320.378	378.212	439.534	2,891.385	5,392.973
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	315.896	115.940	241.987	316.168	0.000	316.168	373.473	320.378	378.212	439.534	2,891.385	5,392.973
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	315.896	115.940	241.987	316.168	0.000	316.168	373.473	320.378	378.212	439.534	2,891.385	5,392.973

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The P-8A is a heavily modified and militarized derivative of Boeing's 737-800 aircraft that provides Broad Area Maritime and Littoral Armed multi-mission support. Number of aircraft in the inventory is as follows: Active duty-119 fielded of 128 funded; National Guard-0; Reserves-11 Designed service life is 25 years with an average service life remaining of 24 years.

OSIP 026-12 Efforts in OSIP 026-12 transitioned to Mission Systems OSIP (006-18) and Aircraft Systems OSIP (001-19) in FY23.

OSIP 006-18 provides funding for P-8A Mission Systems Upgrades to ensure the aircraft continues to meet the Navy's Anti-Submarine Warfare (ASW), Anti-Surface Warfare (ASuW), and ISR Sea Control requirements by upgrading P-8A mission systems hardware, software, and firmware components. The most significant effort this OSIP provides funding for is P-8A Increment 3 (Spiral 2), consisting of ECP 5 and ECP 6/7. ECP 5 is a minor hardware and software modification including upgrades to the IBS receiver, addition of the HF-IP modem, and incorporation of Net Work Enabled Weapons, to be completed via a field modification. ECP 6/7 is a significant Mission Systems hardware and software modification to the aircraft. These modifications include Combat System architecture improvements, ASW and ASuW sensor improvements, communication capability upgrades, Higher-Than-Secret security capability, incorporation of Multi-Static Active Coherent - Enhanced wide area ASW search capability, and associated updates for training systems and supporting documentation. This OSIP also funds Mission Systems improvements identified as fleet prioritized or urgent requirements or as a part of the Rapid Capability Insertion (RCI) process to pace the global ASW and ASuW threat. These include reliability improvements, obsolescence, periodic technology insertion, urgent operational needs, correction of deficiencies and flight safety issues, and funding to implement various cost effective changes to critical P-8A Weapon systems and associated Tactical Operations Center and Mobile Tactical Operation Center equipment.

OSIP 002-15 provides funding for Chief of Naval Operations Project K-0416 program, which provides a rapid response Anti-Submarine Warfare (ASW) intelligence collection, analysis, and reporting system.

OSIP 001-19 provides funding for P-8A Aircraft Systems Upgrades to enable modifications to the aircraft in order to improve aircrew safety, modernize airframe, engine, weapons and stores, and sonobouy launch system performance, and incorporate structural enhancements required for the airframe to reach its designed/extended service life. Also included are efforts to resolve readiness, obsolescence/ Diminishing Manufacturing Sources and Material Shortages (DMSMS), correction of deficiencies incorporated by Engineering Change Proposals (ECPs), and emergent safety issues required for the airframe to reach its designed/extended service life. Funding is provided for airframe modifications to support changes in Size, Weight, Power, and Cooling (SWAP-C) requirements of aircraft and mission systems equipment or as part of the RCI process, to incorporate fleet prioritized requirements, temporary and permanent Quick Reaction Capabilities (QRC), and to incorporate aircraft and propulsion systems related service bulletins and technical directives.

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Exhibit P-40, Budget Line Item Justification: PB 2024 Navy **Date:** March 2023

Appropriation / Budget Activity / Budget Sub Activity:
1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft

P-1 Line Item Number / Title:
0586 / P-8 Series

ID Code (A=Service Ready, B=Not Service Ready): A **Program Elements for Code B Items:** N/A **Other Related Program Elements:** 0605504N, 0605500N

Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	1 / P-8A Correction of Deficiencies and Modernization (OSIP 026-12) (Mission Capabilities)				- / 112.008	- / 1.258	- / 0.000	- / 0.000	- / 0.000	- / 0.000
P-3a	2 / CNO Project K-0416 (OSIP 002-15) (Operational Improvement)				- / 13.189	- / 2.000	- / 2.000	- / 2.000	- / 0.000	- / 2.000
P-3a	3 / P-8A Mission Systems RCI (OSIP 006-18) (Mission Capabilities)				- / 170.170	- / 104.536	- / 231.593	- / 305.414	- / 0.000	- / 305.414
P-3a	4 / P-8A Aircraft Systems (OSIP 001-19) (Safety)				- / 20.529	- / 8.146	- / 8.394	- / 8.754	- / 0.000	- / 8.754
P-40	Total Gross/Weapon System Cost				- / 315.896	- / 115.940	- / 241.987	- / 316.168	- / 0.000	- / 316.168

Exhibits Schedule					FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	1 / P-8A Correction of Deficiencies and Modernization (OSIP 026-12) (Mission Capabilities)				- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 113.266
P-3a	2 / CNO Project K-0416 (OSIP 002-15) (Operational Improvement)				- / 2.000	- / 2.000	- / 2.000	- / 2.000	- / 0.000	- / 27.189
P-3a	3 / P-8A Mission Systems RCI (OSIP 006-18) (Mission Capabilities)				- / 362.583	- / 309.427	- / 367.063	- / 428.111	- / 2,805.963	- / 5,084.860
P-3a	4 / P-8A Aircraft Systems (OSIP 001-19) (Safety)				- / 8.890	- / 8.951	- / 9.149	- / 9.423	- / 85.422	- / 167.658
P-40	Total Gross/Weapon System Cost				- / 373.473	- / 320.378	- / 378.212	- / 439.534	- / 2,891.385	- / 5,392.973

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

Justification:
The FY 2024 request provides funding associated with modification and/or retrofit of the P-8A Poseidon for improvements related to safety, mission / warfighting capabilities, and rapid response operational requirements. Quantities will vary across the different efforts based upon if/when efforts are cut-in to the P-8A production line.

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0586 / P-8 Series	Modification Number / Title: 1 / P-8A Correction of Deficiencies and Modernization (OSIP 026-12)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	112.008	1.258	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	113.266
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	112.008	1.258	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	113.266
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	112.008	1.258	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	113.266

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

OSIP 026-12 Efforts in OSIP 026-12 transitioned to Mission Systems OSIP (006-18) and Aircraft Systems OSIP (001-19) in FY23.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

The P-8 Baseline program achieved Milestone (MS)-C in FY10.

Note: Modernization and Safety consist of both various associated A & B kits and individual A & B kits, therefore the ratio of A to B Kits is not always consistent.

Note: The Corrections of Deficiencies include the productionization of test aircraft that will be returned to the fleet.

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Exhibit P-3a, Individual Modification: PB 2024 Navy										Date: March 2023			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0586 / P-8 Series					Modification Number / Title: 1 / P-8A Correction of Deficiencies and Modernization (OSIP 026-12)			
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: P-8A MMA				Modification Type: Mission Capabilities				Related RDT&E PEs:					
Financial Plan <small>(*) Indicates the modification is being installed organically and no installation funds are required.</small>	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
2.1.1) Modernization and Safety - Organic ^(*) (1)	112 / 15.682	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	112 / 15.682	
2.1.2) Airframe MOD - Organic ^(*)	23 / 1.181	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	23 / 1.181	
2.1.3) Aircraft Structural MOD - NonOrganic <i>Installation 1 of 2</i>	34 / 0.048	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	34 / 0.048	
2.1.4) Fuel System AUX Drain - NonOrganic <i>Installation 1 of 2</i>	28 / 0.023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	28 / 0.023	
2.1.5) Double Walled Fuel Tubes - NonOrganic <i>Installation 1 of 2</i>	26 / 0.374	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	26 / 0.374	
2.1.6) SMPDM Transfer Valve - NonOrganic <i>Installation 1 of 2</i>	18 / 0.018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	18 / 0.018	
2.1.7) CVFD Battery Upgrade - Organic ^(*)	56 / 0.445	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	56 / 0.445	
2.1.8) CDRS Radiant Mercury - Organic ^(*)	74 / 3.862	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	74 / 3.862	
2.1.9) REV A Tailcone Fastener - NonOrganic <i>Installation 2 of 2</i>	52 / 0.085	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	52 / 0.085	
2.1.10) Prior Year Archive - Organic ^(*)	- / 67.335	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 67.335	
Subtotal: Procurement	- / 89.053	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 89.053	
Support													
3.1) Data	- / 1.977	- / 0.018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.995	
3.2) ILS	- / 1.329	- / 0.025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.354	
3.3) Other Support	- / 7.995	- / 0.047	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 8.042	
3.4) Prior Year Archive	24 / 9.989	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	24 / 9.989	
Subtotal: Support	- / 21.290	- / 0.090	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 21.380	
Installation													
Installation 1 of 2: GRP: Prior Year Mods	- / 1.087	- / 0.767	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 1.854	
Installation 2 of 2: REV A Tailcone Fastener	- / 0.578	- / 0.401	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 0.979	
Subtotal: Installation	- / 1.665	- / 1.168	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 2.833	
Total													
Total Cost (Procurement + Support + Installation)	112.008	1.258	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	113.266	

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0586 / P-8 Series	Modification Number / Title: 1 / P-8A Correction of Deficiencies and Modernization (OSIP 026-12)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Installation 1 of 2: GRP: Prior Year Mods

Manufacturer Information

Manufacturer Name: Boeing	Manufacturer Location: Seattle Wa
Administrative Leadtime (in Months): 0	Production Leadtime (in Months): 0

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates							
Delivery Dates							

Installation Information

Method of Implementation: Contractor:: Installation Name: Prior Year Mods

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	60 / 1.087	46 / 0.767	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	106 / 1.854
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	60 / 1.087	46 / 0.767	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	106 / 1.854

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot	
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4			
In	60	10	14	12	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	106
Out	55	12	10	13	12	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	106

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0586 / P-8 Series	Modification Number / Title: 1 / P-8A Correction of Deficiencies and Modernization (OSIP 026-12)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Installation 2 of 2: REV A Tailcone Fastener

Manufacturer Information

Manufacturer Name: BOEING	Manufacturer Location: Seattle, WA
Administrative Leadtime (in Months): 5	Production Leadtime (in Months): 8

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates							
Delivery Dates							

Installation Information

Method of Implementation: Commercial Depot:: Installation Name: REV A Tailcone Fastener

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	31 / 0.578	21 / 0.401	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	52 / 0.979
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	31 / 0.578	21 / 0.401	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	52 / 0.979

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot	
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4			
In	31	8	6	6	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	52
Out	23	8	8	6	6	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	52

Footnotes:
 (1) The Modernization and Safety include the productionization test aircraft that will be returned to the fleet. Modernization and Safety consist of both various associated A & B kits and individual A & B kits, therefore the ratio of A to B Kits is not always consistent.

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Exhibit P-3a, Individual Modification: PB 2024 Navy	Date: March 2023
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Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0586 / P-8 Series	Modification Number / Title: 2 / CNO Project K-0416 (OSIP 002-15)
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ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	13.189	2.000	2.000	2.000	0.000	2.000	2.000	2.000	2.000	2.000	0.000	27.189
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) <i>(\$ in Millions)</i>	13.189	2.000	2.000	2.000	0.000	2.000	2.000	2.000	2.000	2.000	0.000	27.189
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	13.189	2.000	2.000	2.000	0.000	2.000	2.000	2.000	2.000	2.000	0.000	27.189

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Dollars)</i>	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Chief of Naval Operations (CNO) Project K-0416 program provides a rapid response Anti-Submarine Warfare intelligence collection, analysis, and reporting system program focused on Operations Plan specific threat submarines, both conventional and nuclear.

The program accomplishes this by introducing advanced collection avionics that operate with special calibrated sensors to provide threat target data for tactical, Science and Technology (S&T), and weapon design uses. The Sound Pressure Level Collection Suite that is installed on the P-8 mission kits contain several Weapons Replaceable Assembly's, both fabricated & procured. The Suite includes a 8201 modulation meter, a panasonic toughbook, and a Beartrap Automated Noise and Digital Integrated Test set, and the acoustic intelligence collection suite.

CNO K-0416 will calibrate P-8 Platforms, forward sited laboratories, and select forward deployed sites with these collection avionics to provide tactical and S&T Intelligence. Prime performer is the Naval Air Warfare Center (NAWC), Patuxent River. NAWC performs system integration, material acquisition, fabrication, and installation of collection systems.

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES: The changes identified are minor and do not require approval for full production.

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Exhibit P-3a, Individual Modification: PB 2024 Navy										Date: March 2023			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0586 / P-8 Series					Modification Number / Title: 2 / CNO Project K-0416 (OSIP 002-15)			
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: P-8A MMA				Modification Type: Operational Improvement				Related RDT&E PEs:					
Financial Plan <small>(*) Indicates the modification is being installed organically and no installation funds are required.</small>	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total	
	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	
Procurement													
1.1.1) Airborne Anti-Submarine Warfare Intelligence Equipment - Organic ⁽¹⁾	28 / 2.400	4 / 0.400	4 / 0.400	4 / 0.400	- / -	4 / 0.400	4 / 0.400	4 / 0.400	4 / 0.400	4 / 0.400	- / -	56 / 5.200	
2.1.1) Active Target Strength C2 - Organic ^{(1) (2)}	6 / 1.200	1 / 0.200	1 / 0.200	1 / 0.200	- / -	1 / 0.200	1 / 0.200	1 / 0.200	1 / 0.200	1 / 0.200	- / -	13 / 2.600	
<i>Subtotal: Procurement</i>	- / 3.600	- / 0.600	- / 0.600	- / 0.600	- / -	- / 0.600	- / 0.600	- / 0.600	- / 0.600	- / 0.600	- / 0.000	- / 7.800	
Support													
3.1) Other Support ⁽³⁾	- / 5.589	- / 1.400	- / 1.400	- / 1.400	- / -	- / 1.400	- / 1.400	- / 1.400	- / 1.400	- / 1.400	- / -	- / 15.389	
3.2) Interim Contractor Support	- / 3.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 3.000	
3.3) Prior Year Archive	- / 1.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.000	
<i>Subtotal: Support</i>	- / 9.589	- / 1.400	- / 1.400	- / 1.400	- / -	- / 1.400	- / 1.400	- / 1.400	- / 1.400	- / 1.400	- / 0.000	- / 19.389	
Installation													
<i>Subtotal: Installation</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
Total													
Total Cost (Procurement + Support + Installation)	13.189	2.000	2.000	2.000	0.000	2.000	2.000	2.000	2.000	2.000	0.000	27.189	

Footnotes:

⁽²⁾ B-Kit includes material only.

⁽³⁾ Other Support includes field fabrication support of B-Kit.

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0586 / P-8 Series	Modification Number / Title: 3 / P-8A Mission Systems RCI (OSIP 006-18)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	170.170	104.536	231.593	305.414	0.000	305.414	362.583	309.427	367.063	428.111	2,805.963	5,084.860
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	170.170	104.536	231.593	305.414	0.000	305.414	362.583	309.427	367.063	428.111	2,805.963	5,084.860
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	170.170	104.536	231.593	305.414	0.000	305.414	362.583	309.427	367.063	428.111	2,805.963	5,084.860

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The P-8A is a heavily modified and militarized derivative of Boeing's 737-800 aircraft that provides Broad Area Maritime and Littoral Armed multi-mission support.

OSIP 006-18 provides funding for P-8A Mission Systems Upgrades to ensure the aircraft continues to meet the Navy's Anti-Submarine Warfare (ASW), Anti-Surface Warfare (ASuW), and ISR Sea Control requirements by upgrading P-8A mission systems hardware, software, and firmware components. The most significant effort this OSIP provides funding for is P-8A Increment 3 (Spiral 2), consisting of ECP 5 and ECP 6/7. ECP 5 is a minor hardware and software modification including upgrades to the IBS receiver, addition of the HF-IP modem, and incorporation of Net Work Enabled Weapons, to be completed via a field modification. ECP 6/7 is a significant Mission Systems hardware and software modification to the aircraft. These modifications include Combat System architecture improvements, ASW and ASuW sensor improvements, communication capability upgrades, Higher-Than-Secret security capability, incorporation of Multi-Static Active Coherent - Enhanced wide area ASW search capability, and associated updates for training systems and supporting documentation. This OSIP also funds Mission Systems improvements identified as fleet prioritized or urgent requirements or as a part of the Rapid Capability Insertion (RCI) process to pace the global ASW and ASuW threat. These include reliability improvements, obsolescence, periodic technology insertion, urgent operational needs, correction of deficiencies and flight safety issues, and funding to implement various cost effective changes to critical P-8A Weapon systems and associated Tactical Operations Center and Mobile Tactical Operation Center equipment.

Increase from FY23 to FY24 is due to the procurement and performing the first installations of ECP 6/7

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

Increment 3 capabilities are being developed as a series of ECPs.

Note: This modification addresses all P-8A aircraft.

Note: ECP 6/7 fielding in 1Q2026 includes 7 aircraft (1 squadron) modified, trained and ready to deploy.

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Exhibit P-3a, Individual Modification: PB 2024 Navy										Date: March 2023				
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0586 / P-8 Series					Modification Number / Title: 3 / P-8A Mission Systems RCI (OSIP 006-18)				
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:							
Models of Systems Affected: P-8A MMA				Modification Type: Mission Capabilities				Related RDT&E PEs:						
Financial Plan <small>(*) Indicates the modification is being installed organically and no installation funds are required.</small>	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total		
	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>		
Procurement														
1.1.1) Increment 3 ECP 5 - NonOrganic <i>Installation 1 of 2</i>	64 / 5.835	25 / 2.260	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	89 / 8.095		
1.1.2) Increment 3 ECP 6/7 - NonOrganic ⁽⁴⁾ <i>Installation 2 of 2</i>	- / -	3 / 28.350	8 / 52.289	10 / 66.402	- / -	10 / 66.402	10 / 67.442	7 / 47.981	9 / 62.681	12 / 84.970	71 / 522.091	130 / 932.206		
2.1.1) Increment 3 ECP 5 - Organic ^(*)	64 / 3.265	25 / 1.131	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	89 / 4.396		
2.1.2) Increment 3 ECP 6/7 - Organic ^{(*) (5)}	- / -	3 / 43.825	8 / 117.866	10 / 149.543	- / -	10 / 149.543	10 / 151.886	7 / 108.225	9 / 141.220	12 / 191.244	71 / 1,176.332	130 / 2,080.141		
3.1.1) Other Mission Systems - Upgrade - Organic ^{(*) (6)}	- / -	3 / 0.229	3 / 0.233	3 / 0.236	- / -	3 / 0.236	3 / 0.240	3 / 0.244	3 / 0.248	3 / 0.252	3 / 0.256	24 / 1.938		
3.1.2) RFCM Self Protection Pod - Organic ^{(*) (7)}	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3 / 15.500	4 / 20.400	17 / 86.700	24 / 122.600		
3.1.3) Other Mission Systems - Obsolescence - Organic ^{(*) (8)}	- / -	- / -	- / 3.532	- / 3.090	- / -	- / 3.090	- / 3.094	- / 1.187	- / 1.000	- / 1.000	- / -	- / 12.903		
4.1.1) Installation Equipment NRE - Organic ^{(*) (9)}	- / 51.041	- / 4.026	- / 4.000	- / 2.100	- / -	- / 2.100	- / 3.500	- / -	- / -	- / -	- / -	- / 64.667		
4.1.2) Increment 3 Maintenance Trainer Modification NRE - Organic ^(*)	- / -	- / 2.113	- / 7.871	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 9.984		
4.1.3) Prior Year Archive (Organic) - Organic ^(*)	- / 52.559	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 52.559		
Subtotal: Procurement	- / 112.700	- / 81.934	- / 185.791	- / 221.371	- / -	- / 221.371	- / 226.162	- / 157.637	- / 220.649	- / 297.866	- / 1,785.379	- / 3,289.489		
Support														
5.1) Data ⁽¹⁰⁾	- / 3.011	- / 1.010	- / 3.666	- / 2.200	- / -	- / 2.200	- / 2.150	- / 1.786	- / 1.000	- / 3.500	- / 8.300	- / 26.623		
5.2) Increment 3 Aircrew Trainers ⁽¹¹⁾	- / -	- / -	- / 13.819	- / 19.568	- / -	- / 19.568	- / 36.577	- / 32.227	- / 26.090	- / 30.483	- / 32.487	- / 191.251		
5.3) ILS ⁽¹²⁾	- / 5.020	- / 1.023	- / 3.721	- / 2.385	- / -	- / 2.385	- / 2.217	- / 1.100	- / 1.103	- / 6.000	- / 11.500	- / 34.069		
5.4) Other Support ⁽¹³⁾	- / 28.032	- / 9.289	- / 13.247	- / 15.220	- / -	- / 15.220	- / 16.677	- / 18.177	- / 19.721	- / 21.312	- / 61.097	- / 202.772		
Subtotal: Support	- / 36.063	- / 11.322	- / 34.453	- / 39.373	- / -	- / 39.373	- / 57.621	- / 53.290	- / 47.914	- / 61.295	- / 113.384	- / 454.715		
Installation														
Installation 1 of 2: GRP: Increment 3 ECP 5	- / 21.407	- / 11.280	- / 11.349	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 44.036		
Installation 2 of 2: GRP: Increment 3 ECP 6/7	- / -	- / -	- / -	- / 44.670	- / 0.000	- / 44.670	- / 78.800	- / 98.500	- / 98.500	- / 68.950	- / 907.200	- / 1,296.620		
Subtotal: Installation	- / 21.407	- / 11.280	- / 11.349	- / 44.670	- / -	- / 44.670	- / 78.800	- / 98.500	- / 98.500	- / 68.950	- / 907.200	- / 1,340.656		
Total														
Total Cost (Procurement + Support + Installation)	170.170	104.536	231.593	305.414	0.000	305.414	362.583	309.427	367.063	428.111	2,805.963	5,084.860		

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0586 / P-8 Series	Modification Number / Title: 3 / P-8A Mission Systems RCI (OSIP 006-18)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Installation 1 of 2: GRP: Increment 3 ECP 5

Manufacturer Information

Manufacturer Name: Boeing - Increment 3 ECP 5	Manufacturer Location: Seattle, WA
Administrative Leadtime (in Months): 0	Production Leadtime (in Months): 12

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates	Oct 2021						
Delivery Dates	Oct 2022						

Installation Information

Method of Implementation: Contractor Field Mod Team:: Installation Name: Increment 3 ECP 5

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	40 / 21.407	24 / 11.280	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	64 / 32.687
FY 2022	- / -	- / -	25 / 11.349	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	25 / 11.349
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	40 / 21.407	24 / 11.280	25 / 11.349	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	89 / 44.036

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot	
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4			
In	40	6	6	6	6	6	6	6	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	89
Out	40	6	6	6	6	6	6	6	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	89

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0586 / P-8 Series	Modification Number / Title: 3 / P-8A Mission Systems RCI (OSIP 006-18)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Installation 2 of 2: GRP: Increment 3 ECP 6/7

Manufacturer Information

Manufacturer Name: Boeing-Increment 3 ECP 6/7 ⁽¹⁴⁾	Manufacturer Location: Seattle, WA
Administrative Leadtime (in Months): 5	Production Leadtime (in Months): 20

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates	Feb 2023	Feb 2023	Feb 2024	Feb 2025	Feb 2026	Feb 2027	Feb 2028
Delivery Dates	Apr 2024	Nov 2024	Oct 2025	Oct 2026	Oct 2027	Oct 2028	Oct 2029

Installation Information

Method of Implementation: Depot:: Installation Name: Increment 3 ECP 6/7

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	3 / 44.670	0 / 0.000	3 / 44.670	- / -	- / -	- / -	- / -	0 / 0.000	3 / 44.670
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	8 / 78.800	- / -	- / -	- / -	0 / 0.000	8 / 78.800
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	10 / 98.500	- / -	- / -	0 / 0.000	10 / 98.500
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	10 / 98.500	- / -	0 / 0.000	10 / 98.500
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	7 / 68.950	0 / 0.000	7 / 68.950
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	9 / 88.748	9 / 88.748
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	12 / 118.330	12 / 118.330
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	71 / 700.122	71 / 700.122
Total	- / -	- / -	- / -	3 / 44.670	0 / 0.000	3 / 44.670	8 / 78.800	10 / 98.500	10 / 98.500	7 / 68.950	92 / 907.200	130 / 1,296.620

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	-	1	2	1	2	3	2	2	3	2	3	2	3	2	3	2	2	2	1	92	130
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	2	2	3	2	1	2	3	2	3	2	3	2	3	2	97	130

Footnotes:
⁽⁴⁾ Increases to ECP 6/7 Kit costs in FY 22-28 are due to market impacts associated with COVID (labor loss), actual US inflation, global supply disruption/shortages (i.e., microchips, semi-conductors), significant price sensitivity to low rate procurements, and additional component level kit requirements (replacement of internal aircraft communications equipment) for early LRIP (Lots 1-4) aircraft that require full component replacements.

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0586 / P-8 Series	Modification Number / Title: 3 / P-8A Mission Systems RCI (OSIP 006-18)
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:
<p>(5) Increases to ECP 6/7 Kit costs in FY 22-28 are due to market impacts associated with COVID (labor loss), actual US inflation, global supply disruption/shortages (i.e., microchips, semi-conductors), significant price sensitivity to low rate procurements, and additional component level kit requirements (replacement of internal aircraft communications equipment) for early LRIP (Lots 1-4) aircraft that require full component replacements.</p> <p>(6) Other Mission Systems Upgrades includes network, sensor, and communication capability improvements.</p> <p>(7) Procurements in FY27 and FY28 represent the Radio Frequency Countermeasure (RFCM) buys in support of fielding Rapid Capability Insertion 5 (RCI-5) Survivability improvements as part of FR-320.</p> <p>(8) Allows for modifications based on obsolescence.</p> <p>(9) Addresses NRE related to Mission Systems obsolescence and NRE required to update Technical Descriptions (TDs) and Integrated Data Packages (IDPs) for Lots 1-12 based on emerging engineering changes for ECP 6/7.</p> <p>(10) Increases in the program's data requirements are associated with the initial kit deliveries and their installation initiation.</p> <p>(11) Upgrade all existing P-8 training systems variants and support documentation by FY to support squadron fielding of ECP 6/7 capability. Significant NRE efforts for the trainers and upgrade to operator trainer mods will continue and ramp up as more ECP 6/7 modified aircraft are delivered to the Fleet.</p> <p>(12) ILS funding profile reflects the need for supporting the new A and B kits by the stand up of a P-8A retrofit support team.</p> <p>(13) Other support increase due to additional quantity of ECP 6/7 kit procurements in FY24 and US inflation. This includes support to procure over 70 different items included in the B kits above; support to perform required central kitting activities; and ongoing Fleet transition planning activities required to support FY25 aircraft deliveries.</p> <p>(14) FY22/FY23 lead times have been shortened by delivering long lead parts to the modification line after the aircraft has been inducted for install prior to delivery.</p>		

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0586 / P-8 Series	Modification Number / Title: 4 / P-8A Aircraft Systems (OSIP 001-19)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	20.529	8.146	8.394	8.754	0.000	8.754	8.890	8.951	9.149	9.423	85.422	167.658
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	20.529	8.146	8.394	8.754	0.000	8.754	8.890	8.951	9.149	9.423	85.422	167.658
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	20.529	8.146	8.394	8.754	0.000	8.754	8.890	8.951	9.149	9.423	85.422	167.658

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

OSIP 001-19 provides funding for P-8A Aircraft Systems Upgrades to enable modifications to the aircraft in order to improve aircrew safety, modernize airframe, engine, weapons and stores, and sonobouy launch system performance, and incorporate structural enhancements required for the airframe to reach its designed/extended service life. Also included are efforts to resolve readiness, obsolescence/ Diminishing Manufacturing Sources and Material Shortages (DMSMS), correction of deficiencies incorporated by Engineering Change Proposals (ECPs), and emergent safety issues required for the airframe to reach its designed/extended service life. Funding is provided for airframe modifications to support changes in Size, Weight, Power, and Cooling (SWAP-C) requirements of aircraft and mission systems equipment or as part of the RCI process, to incorporate fleet prioritized requirements, temporary and permanent Quick Reaction Capabilities (QRC), and to incorporate aircraft and propulsion systems related service bulletins and technical directives.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

No major development milestones. The changes identified will utilize the Engineering Change Proposal (ECP) process.

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Exhibit P-3a, Individual Modification: PB 2024 Navy										Date: March 2023			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0586 / P-8 Series						Modification Number / Title: 4 / P-8A Aircraft Systems (OSIP 001-19)			
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: [No Model Specified]				Modification Type: Safety				Related RDT&E PEs:					
Financial Plan <small>(*) Indicates the modification is being installed organically and no installation funds are required.</small>	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
1.1.1) Aircraft Systems Upgrade 2 - Organic ^(*)	- / -	2 / 0.100	2 / 0.102	3 / 0.156	- / -	3 / 0.156	6 / 0.318	14 / 0.750	14 / 0.750	15 / 0.773	60 / 5.955	116 / 8.904	
1.1.2) Prior Year Archive - Organic ^(*)	5 / 0.488	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	5 / 0.488	
2.1.1) J8 Harness - Organic ^(*)	42 / 0.685	14 / 0.237	13 / 0.225	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	69 / 1.147	
2.1.2) Aircraft Systems Upgrade - NonOrganic Installation 1 of 3	8 / 0.614	10 / 0.795	10 / 0.810	12 / 1.082	- / -	12 / 1.082	10 / 0.877	16 / 1.575	15 / 1.379	15 / 1.379	23 / 5.695	119 / 14.206	
2.1.3) Aircraft System Upgrade 2 - NonOrganic Installation 2 of 3	- / -	- / -	- / -	- / -	- / -	- / -	6 / 1.010	11 / 2.001	11 / 2.001	11 / 2.001	80 / 18.680	119 / 25.693	
2.1.4) Engine Fifth Stage - Organic ^(*)	100 / 5.130	40 / 2.120	24 / 1.296	46 / 2.107	- / -	46 / 2.107	46 / 2.107	- / -	- / -	- / -	- / -	256 / 12.760	
2.1.5) Lower Lobe Vibration - NonOrganic Installation 3 of 3	38 / 0.714	20 / 0.392	20 / 0.400	19 / 0.479	- / -	19 / 0.479	3 / 0.062	- / -	- / -	- / -	- / -	100 / 2.047	
2.1.6) Raked Wing Tip - Organic ^(*)	42 / 0.755	30 / 0.669	30 / 0.682	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	102 / 2.106	
2.1.7) Leading Edge Slat Redesign - Organic ^(*)	12 / 0.062	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	12 / 0.062	
2.1.8) Oil Scavenge Tube - Organic ^(*)	63 / 0.136	42 / 0.093	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	105 / 0.229	
2.1.9) IDG Oil Tube - Organic ^(*)	21 / 0.072	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	21 / 0.072	
2.1.10) Starter V-Band Clamp - Organic ^(*)	21 / 0.051	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	21 / 0.051	
2.1.11) T/R Blanket Interference - Organic ^(*)	15 / 0.017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	15 / 0.017	
2.1.12) Prior Year Archive - Organic ^(*)	45 / 1.837	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	45 / 1.837	
2.1.13) Prior Year Archive - NonOrganic - Organic ^(*)	- / 0.488	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.488	
2.2.1) Installation Equipment N/R - Organic ^(*)	- / 4.646	- / 1.295	- / 0.860	- / 1.123	- / -	- / 1.123	- / 1.059	- / 1.215	- / 0.979	- / 1.219	- / 17.727	- / 30.123	
Subtotal: Procurement	- / 15.695	- / 5.701	- / 4.375	- / 4.947	- / -	- / 4.947	- / 5.433	- / 5.541	- / 5.109	- / 5.372	- / 48.057	- / 100.230	
Support													
3.1) Data	- / 0.205	- / 0.060	- / 0.039	- / 0.045	- / -	- / 0.045	- / 0.060	- / -	- / -	- / -	- / 1.031	- / 1.440	
3.2) ILS	- / 0.390	- / 0.171	- / 0.315	- / 0.181	- / -	- / 0.181	- / 0.186	- / 0.275	- / 0.478	- / 0.492	- / 2.636	- / 15.124	
3.3) Other Support	- / 1.220	- / 0.609	- / 0.591	- / 0.611	- / -	- / 0.611	- / 0.570	- / 0.625	- / 0.737	- / 0.669	- / 5.651	- / 11.283	
Subtotal: Support	- / 1.815	- / 0.840	- / 0.945	- / 0.837	- / -	- / 0.837	- / 0.816	- / 0.900	- / 1.215	- / 1.161	- / 9.318	- / 17.847	
Installation													
Installation 1 of 3: Aircraft Systems Upgrade	- / 0.633	- / 0.390	- / 1.325	- / 1.350	- / 0.000	- / 1.350	- / 1.650	- / 1.536	- / 1.840	- / 1.900	- / 8.353	- / 18.977	
Installation 2 of 3: Aircraft System Upgrade 2	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.974	- / 0.985	- / 0.990	- / 19.694	- / 22.643	
Installation 3 of 3: Lower Lobe Vibration	- / 2.386	- / 1.215	- / 1.749	- / 1.620	- / 0.000	- / 1.620	- / 0.991	- / -	- / -	- / -	- / 0.000	- / 17.961	
Subtotal: Installation	- / 3.019	- / 1.605	- / 3.074	- / 2.970	- / -	- / 2.970	- / 2.641	- / 2.510	- / 2.825	- / 2.890	- / 28.047	- / 49.581	

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Exhibit P-3a, Individual Modification: PB 2024 Navy **Date:** March 2023

Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0586 / P-8 Series	Modification Number / Title: 4 / P-8A Aircraft Systems (OSIP 001-19)
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ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Models of Systems Affected: [No Model Specified] **Modification Type:** Safety **Related RDT&E PEs:**

Financial Plan <small>(*) Indicates the modification is being installed organically and no installation funds are required.</small>	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>
Total												
Total Cost (Procurement + Support + Installation)	20.529	8.146	8.394	8.754	0.000	8.754	8.890	8.951	9.149	9.423	85.422	167.658

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Exhibit P-3a, Individual Modification: PB 2024 Navy **Date:** March 2023

Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0586 / P-8 Series	Modification Number / Title: 4 / P-8A Aircraft Systems (OSIP 001-19)
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ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Installation 1 of 3: Aircraft Systems Upgrade

Manufacturer Information

Manufacturer Name: BOEING	Manufacturer Location: Seattle, WA
Administrative Leadtime (in Months): 5	Production Leadtime (in Months): 8

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates	Feb 2022	Feb 2023	Feb 2024	Feb 2025	Feb 2026	Feb 2027	Feb 2028
Delivery Dates	Oct 2022	Oct 2023	Oct 2024	Oct 2025	Oct 2026	Oct 2027	Oct 2028

Installation Information

Method of Implementation: Contractor Field MOD Team:: Installation Name: Aircraft Systems Upgrade

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	5 / 0.633	3 / 0.390	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	8 / 1.023
FY 2022	- / -	- / -	10 / 1.325	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	10 / 1.325
FY 2023	- / -	- / -	- / -	10 / 1.350	0 / 0.000	10 / 1.350	- / -	- / -	- / -	- / -	0 / 0.000	10 / 1.350
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	12 / 1.650	- / -	- / -	- / -	0 / 0.000	12 / 1.650
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	10 / 1.536	- / -	- / -	0 / 0.000	10 / 1.536
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	16 / 1.840	- / -	0 / 0.000	16 / 1.840
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	15 / 1.845	15 / 1.845
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	15 / 1.900	0 / 0.000	15 / 1.900
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	23 / 6.508	23 / 6.508
Total	5 / 0.633	3 / 0.390	10 / 1.325	10 / 1.350	0 / 0.000	10 / 1.350	12 / 1.650	10 / 1.536	16 / 1.840	15 / 1.900	38 / 8.353	119 / 18.977

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	5	1	-	1	1	2	2	3	3	2	2	3	3	3	3	3	3	3	2	3	2	4	4	4	4	3	3	3	6	38	119
Out	4	1	1	-	1	1	2	2	3	3	2	2	3	3	3	3	3	6	2	3	2	4	4	4	4	3	3	3	6	38	119

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy **Date:** March 2023

Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0586 / P-8 Series	Modification Number / Title: 4 / P-8A Aircraft Systems (OSIP 001-19)
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ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Installation 2 of 3: Aircraft System Upgrade 2

Manufacturer Information

Manufacturer Name: TBD	Manufacturer Location: TBD
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Administrative Leadtime (in Months): 5	Production Leadtime (in Months): 8
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Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates				Feb 2025	Feb 2026	Feb 2027	Feb 2028
Delivery Dates				Oct 2025	Oct 2026	Oct 2027	Oct 2028

Installation Information

Method of Implementation: Field Mod Team:: Installation Name: Aircraft System Upgrade 2

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	6 / 0.974	- / -	- / -	0 / 0.000	6 / 0.974
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	11 / 0.985	- / -	0 / 0.000	11 / 0.985
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	11 / 0.990	0 / 0.000	11 / 0.990
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	11 / 1.014	11 / 1.014
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	80 / 18.680	80 / 18.680
Total	- / -	- / -	- / -	- / -	- / -	- / -	- / -	6 / 0.974	11 / 0.985	11 / 0.990	91 / 19.694	119 / 22.643

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	2	2	1	3	3	2	3	3	2	3	3	91	119
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	2	2	3	3	2	3	3	2	3	3	91	119

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0586 / P-8 Series	Modification Number / Title: 4 / P-8A Aircraft Systems (OSIP 001-19)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Installation 3 of 3: Lower Lobe Vibration

Manufacturer Information

Manufacturer Name: TBD- Lower Lobe Vibration Manufacturer Location: TBD

Administrative Leadtime (in Months): 3 Production Leadtime (in Months): 6

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates	Dec 2021	Dec 2022	Dec 2023	Dec 2024			
Delivery Dates	Jun 2022	Jun 2023	Jun 2024	Jun 2025			

Installation Information

Method of Implementation: Contractor Field Mod Team:: Installation Name: Lower Lobe Vibration

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	31 / 2.386	7 / 0.567	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	38 / 2.953
FY 2022	- / -	8 / 0.648	12 / 0.954	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	20 / 1.602
FY 2023	- / -	- / -	10 / 0.795	10 / 0.810	0 / 0.000	10 / 0.810	- / -	- / -	- / -	- / -	0 / 0.000	20 / 1.605
FY 2024	- / -	- / -	- / -	10 / 0.810	0 / 0.000	10 / 0.810	9 / 0.743	- / -	- / -	- / -	0 / 0.000	19 / 1.553
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	3 / 0.248	- / -	- / -	- / -	0 / 0.000	3 / 0.248
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	31 / 2.386	15 / 1.215	22 / 1.749	20 / 1.620	0 / 0.000	20 / 1.620	12 / 0.991	- / -	- / -	- / -	0 / 0.000	100 / 7.961

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot		
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4				
In	31	3	4	4	4	6	6	5	5	5	5	5	5	5	4	1	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Out	27	4	3	4	4	4	6	6	5	5	5	5	5	5	5	4	1	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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Exhibit P-40, Budget Line Item Justification: PB 2024 Navy **Date:** March 2023

Appropriation / Budget Activity / Budget Sub Activity: 1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft	P-1 Line Item Number / Title: 0587 / MAGTF EW for Aviation
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: 0604376M, 0604270N
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	195.512	29.149	24.684	24.901	0.000	24.901	25.550	26.071	26.609	27.707	171.840	552.023
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	195.512	29.149	24.684	24.901	0.000	24.901	25.550	26.071	26.609	27.707	171.840	552.023
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	195.512	29.149	24.684	24.901	0.000	24.901	25.550	26.071	26.609	27.707	171.840	552.023

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

This line item funds modification efforts that support the Marine Air Ground Task Force Electronic Warfare (MAGTF EW) mission. These modifications will support improved capabilities to address existing and emerging threats and close gaps in MAGTF EW sufficiency and integration in the EW arena. These capabilities are designed for carriage on an expansive variety of organic air and ground MAGTF assets and include: Collaborative Electronic Attack (EA)/EW Battle Management, EW Services Architecture, and Intrepid Tiger series.

MAGTF EW will support procurement of new technologies and equipment as needed to combat emerging EW technologies and systems.

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Exhibit P-40, Budget Line Item Justification: PB 2024 Navy **Date:** March 2023

Appropriation / Budget Activity / Budget Sub Activity:
1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft

P-1 Line Item Number / Title:
0587 / MAGTF EW for Aviation

ID Code (A=Service Ready, B=Not Service Ready): A **Program Elements for Code B Items:** N/A **Other Related Program Elements:** 0604376M, 0604270N

Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	1 / INTREPID TIGER II SERIES (AN/ALQ-231) (OSIP 010-13) (RELIABILITY / MISSION CAPABILITY)				- / 191.780	- / 29.149	- / 24.684	- / 24.901	- / 0.000	- / 24.901
P-3a	2 / INACTIVE OSIPS (RELIABILITY / MISSION CAPABILITY)				- / 3.732	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000
P-40	Total Gross/Weapon System Cost				- / 195.512	- / 29.149	- / 24.684	- / 24.901	- / 0.000	- / 24.901

Exhibits Schedule					FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	1 / INTREPID TIGER II SERIES (AN/ALQ-231) (OSIP 010-13) (RELIABILITY / MISSION CAPABILITY)				- / 25.550	- / 26.071	- / 26.609	- / 27.707	- / 171.840	- / 548.291
P-3a	2 / INACTIVE OSIPS (RELIABILITY / MISSION CAPABILITY)				- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 3.732
P-40	Total Gross/Weapon System Cost				- / 25.550	- / 26.071	- / 26.609	- / 27.707	- / 171.840	- / 552.023

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

Justification:
The term Electronic Warfare (EW) refers to the use of electromagnetic (EM) energy and Directed Energy (DE) to control the Electromagnetic Spectrum (EMS) or to attack the enemy. EW consists of three divisions: Electronic Attack (EA), Electronic Protect (EP), and Electronic Warfare Support (EWS). Further, some cyber-operations will be enabled by EW operations. Accordingly, the Marine Corps considers the EMS as a war fighting environment that must be fully integrated into the MAGTF Commanders scheme-of-maneuver and concept-of-fires. The concept of operations for MAGTF EW takes advantage of advancements in technology that facilitate integration of airborne and ground-based EW assets to collaboratively interact, providing the MAGTF Commander with the capabilities to control the EMS at the time and place of his/her choosing.

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0587 / MAGTF EW for Aviation	Modification Number / Title: 1 / INTREPID TIGER II SERIES (AN/ ALQ-231) (OSIP 010-13)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	191.780	29.149	24.684	24.901	0.000	24.901	25.550	26.071	26.609	27.707	171.840	548.291
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	191.780	29.149	24.684	24.901	0.000	24.901	25.550	26.071	26.609	27.707	171.840	548.291
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	191.780	29.149	24.684	24.901	0.000	24.901	25.550	26.071	26.609	27.707	171.840	548.291

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Effort for Intrepid Tiger II (IT II) capability is designed to expand electromagnetic spectrum control, spectrum management, and Electronic Warfare (EW) effectiveness against current targets and to provide adaptability to counter future targets as they emerge. Key to this capability is network accessibility that includes EW Services Architecture derived infrastructure for integration on multiple aviation platforms including any MAGTF tactical fixed-wing, tilt-wing, and rotary-wing.

The design includes open architecture-compliant and easily expandable hardware and software. Engineering Change Proposals (ECPs) will be utilized in order to upgrade component technology via Advanced Technology Kits. Advanced Technology Kits will focus on new capability insertion for the Technique Generator, Antennas, Network and EW Services, Interfaces, and other supporting technology.

-Technique Generator Upgrades: Will enable new techniques to provide additional capability that counters existing and anticipated threat systems while maintaining an open architecture to allow future counter threat upgrades.

-Antenna Upgrades: Will expand transmit and receive frequency coverage to that of current and anticipated threat systems dynamically operating in a broad spectrum.

-Network and EW Services Upgrade: Will enable a non-co-located operator access to pod functions and information exchanges via radio signals to enhance operational and tactical flexibility.

-Interface Upgrades: Will enable ground and air based users to configure and monitor pod status, operation and effectiveness.

-Other Supporting Upgrades: Includes hardware and software components that enable functions of power, cooling, status, control and connectivity as through processors, sensors, radios, radio frequency components and support equipment critical to overall pod and system operation to include techniques, mission planning, operational execution, post-flight analysis and shipping containers.

ENGINEERING CHANGES: This AN/ALQ-231 program covers system modifications required to improve reliability/maintainability/availability, enhance mission capability, interface/integrate with evolving electromagnetic spectrum control, spectrum management, and EW systems, and resolve obsolescence issues.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: The IT II was designated a Program of Record under PEO(T) in May 2017. The IT II Block X is a technology upgrade to the IT II (V)1 that will provide enhanced communications and counter-radar jamming capability for USMC tilt-rotor and fixed-wing aircraft. IT II Block X V-22 variant, formerly known as Block X Rack variant, has been officially designated as AN/ALQ-231 (V)4 commenced production in FY 2021. Follow on Block X effort for KC-130J, formerly known as Block X Pod variant, is scheduled to begin production in FY 2025.

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Exhibit P-3a, Individual Modification: PB 2024 Navy										Date: March 2023			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0587 / MAGTF EW for Aviation					Modification Number / Title: 1 / INTREPID TIGER II SERIES (AN/ ALQ-231) (OSIP 010-13)			
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: MULTIPLE PLATFORMS				Modification Type: RELIABILITY / MISSION CAPABILITY				Related RDT&E PEs: 0604376M, 0604270N					
Financial Plan	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
<i>Modification Item 1 of 1:</i> INTREPID TIGER II SERIES (AN/ALQ-231) (OSIP 010-13)													
B Kits													
Recurring													
2.1.1) AN/ALQ-231(V)3 (Rotary Wing) - Organic	56 / 56.238	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	56 / 56.238	
2.1.2) DF Arrays - Organic	49 / 9.473	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	49 / 9.473	
2.1.3) AN/ALQ-231(V)4 (MV-22) - Organic	9 / 14.349	15 / 23.950	11 / 17.643	7 / 11.452	- / -	7 / 11.452	- / -	- / -	- / -	- / -	- / -	42 / 67.394	
2.1.4) AN/ALQ-231(V)1 BLK X KC-130J - Organic	- / -	- / -	- / -	- / -	- / -	- / -	3 / 16.485	4 / 22.090	4 / 22.532	4 / 22.982	23 / 141.404	38 / 225.493	
2.1.5) CONG ADD: BLK 2 IT-II (V) 1 Fixed Wing Payloads Modification - Organic	4 / 2.500	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4 / 2.500	
2.1.6) System Network Radios - Organic ⁽¹⁾	- / -	- / -	16 / 2.080	47 / 6.232	- / -	47 / 6.232	24 / 3.246	- / -	- / -	- / -	- / -	87 / 11.558	
2.1.7) Archived Mods - Organic	37 / 35.267	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	37 / 35.267	
<i>Subtotal: Recurring</i>	- / 117.827	- / 23.950	- / 19.723	- / 17.684	- / -	- / 17.684	- / 19.731	- / 22.090	- / 22.532	- / 22.982	- / 141.404	- / 407.923	
Non-Recurring													
2.2.1) Installation Equipment N/R - Organic	- / 6.683	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 6.683	
<i>Subtotal: Non-Recurring</i>	- / 6.683	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 6.683	
<i>Subtotal: INTREPID TIGER II SERIES (AN/ALQ-231) (OSIP 010-13)</i>	155 / 124.510	15 / 23.950	27 / 19.723	54 / 17.684	- / -	54 / 17.684	27 / 19.731	4 / 22.090	4 / 22.532	4 / 22.982	23 / 141.404	313 / 414.606	
<i>Subtotal: Procurement, All Modification Items</i>	- / 124.510	- / 23.950	- / 19.723	- / 17.684	- / -	- / 17.684	- / 19.731	- / 22.090	- / 22.532	- / 22.982	- / 141.404	- / 414.606	
Support (All Modification Items)													
3.4) ILS	- / 2.111	- / 1.875	- / 2.060	- / 1.998	- / -	- / 1.998	- / 2.038	- / 2.079	- / 2.120	- / 2.163	- / 13.917	- / 30.361	
3.5) Other Support	- / 152.018	- / 1.314	- / 1.561	- / 1.439	- / -	- / 1.439	- / 1.467	- / 1.497	- / 1.527	- / 1.557	- / 10.019	- / 72.399	
3.6) Support Equipment ⁽²⁾	- / 113.141	- / 2.010	- / 1.340	- / 3.780	- / -	- / 3.780	- / 2.314	- / 0.405	- / 0.430	- / 1.005	- / 6.500	- / 30.925	
<i>Subtotal: Support</i>	- / 67.270	- / 5.199	- / 4.961	- / 7.217	- / -	- / 7.217	- / 5.819	- / 3.981	- / 4.077	- / 4.725	- / 30.436	- / 133.685	
Installation													
<i>Subtotal: Installation</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
Total													
Total Cost (Procurement + Support + Installation)	191.780	29.149	24.684	24.901	0.000	24.901	25.550	26.071	26.609	27.707	171.840	548.291	

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0587 / MAGTF EW for Aviation	Modification Number / Title: 1 / INTREPID TIGER II SERIES (AN/ ALQ-231) (OSIP 010-13)
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:
Modification Item 1 of 1: INTREPID TIGER II SERIES (AN/ALQ-231) (OSIP 010-13)		

Footnotes:

- (1) FY 2024 request for Network Radio Kits for the replacement of obsolete Intrepid Tiger II payload radio suite with next generation radio kits to ensure continued real-time mesh network connectivity of the Intrepid Tiger II family of systems in the battle space.
- (2) Increase in FY 2024 for support equipment due to additional support equipment needed to equip multiple, geographically dispersed expeditionary detachments in support of AN/ALQ-231 V(4) IOC.

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Exhibit P-3a, Individual Modification: PB 2024 Navy	Date: March 2023
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Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0587 / MAGTF EW for Aviation	Modification Number / Title: 2 / INACTIVE OSIPS
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ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	3.732	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	3.732
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	3.732	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	3.732
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	3.732	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	3.732

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Inactive OSIPs prior year totals.

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Exhibit P-3a, Individual Modification: PB 2024 Navy **Date:** March 2023

Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0587 / MAGTF EW for Aviation	Modification Number / Title: 2 / INACTIVE OSIPS
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ID Code (A=Service Ready, B=Not Service Ready) : **MDAP/MAIS Code:**

Models of Systems Affected: EA-6B	Modification Type: RELIABILITY / MISSION CAPABILITY	Related RDT&E PEs:
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Financial Plan <small>(*) Indicates the modification is being installed organically and no installation funds are required.</small>	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>
Procurement												
1.1.1) INACTIVE OSIPS - Organic ^{(*) (3)}	- / 3.732	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 3.732
<i>Subtotal: Procurement</i>	- / 3.732	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 3.732
Installation												
<i>Subtotal: Installation</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total												
Total Cost (Procurement + Support + Installation)	3.732	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	3.732

Footnotes:
(3) Updated Prior Years to actuals.

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Exhibit P-40, Budget Line Item Justification: PB 2024 Navy **Date:** March 2023

Appropriation / Budget Activity / Budget Sub Activity: 1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft	P-1 Line Item Number / Title: 0588 / MQ-8 Series
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	162.013	31.566	9.846	14.700	0.000	14.700	23.262	10.371	10.593	10.845	5.714	278.910
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	162.013	31.566	9.846	14.700	0.000	14.700	23.262	10.371	10.593	10.845	5.714	278.910
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	162.013	31.566	9.846	14.700	0.000	14.700	23.262	10.371	10.593	10.845	5.714	278.910

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The MQ-8 Unmanned Air System is a Joint Military Intelligence Program.

The MQ-8C Fire Scout is a vertical take-off and landing, expeditionary, unmanned aircraft system (UAS) capable of day/night ship and shore-based operations. Fire Scout provides an airborne, unmanned, sea-based, persistent intelligence, surveillance, reconnaissance and targeting (ISR-T) asset to the host Littoral Combat Ship (LCS) platform or suitably equipped air capable ships (SEACS) without the reliance on limited joint theater or national assets. The MQ-8C Fire Scout system of systems includes the Mission Control System (MCS), Unmanned Common Aircraft Recovery System (UCARS) (required for shipboard only), and Tactical Common Data Link (TCDL) for MQ-8C command & control and payload data transmission.

The program procured a total of 68 air vehicles thirty (30) MQ-8Bs and thirty-eight (38) MQ-8Cs. The program sustains Nineteen (19) MQ-8C Fire Scouts with no further contract deliveries. Fifteen (15) MQ-8Cs are located at the Fleet Contractor Field Team (CFT) supported storage and maintenance facility at Naval Base Ventura County (NBVC) Pt. Mugu, CA. Two (2) MQ-8C Fire Scouts are at Webster Field, MD. Two (2) MQ-8Cs were stricken due to attrition. All MQ-8B's have been fully sun downed as of 30 September 2022.

The MQ-8 Fire Scout system includes air vehicle(s), payloads (e.g., electro-optical/infra-red/laser designator-range finder, Automated Information System (AIS), voice communications relay, Radar, and other specialty payloads), MCS (with Tactical Control System and Tactical Common Data Link integrated for interoperability), Unmanned Air Vehicle Common Automatic Recovery System (UCARS) for automatic launch and recovery, training systems, associated spares, and support equipment. The quantities and schedules for MCS and UCARS components are based on host ship requirements, while quantities and schedules for air vehicle components are based on operational deployment plans. A limited number of land-based MCS supplement the shipboard systems to support shore-based operations, such as pre-deployment or acceptance functional check flights. These land-based MCS will also support depot-level maintenance/post-maintenance activities. The MQ-8 system supports Littoral Combat Ship (LCS), and/or suitably-equipped air capable ship ISR collection for Navy and urgent operational requirements. Future ships supported include FFG.

The MQ-8 Unmanned Air System (Fire Scout) program achieved MS C in June 2017. MQ-8C Unmanned Air System declared Initial Operational Capability in June 2019 for the Endurance Baseline and in June 2022 for the Surface Warfare (SUW) Increment which includes the Radar. The MQ-8B variant of Fire Scout completed Sundown on 30 Sep 2022. Currently, the MQ-8C is the only remaining airframe for the program of record that maintain a limited segment of air vehicles to support the LCS Surface Warfare (SUW) missions and future Mine Counter Measures (MCM) missions.

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Exhibit P-40, Budget Line Item Justification: PB 2024 Navy **Date:** March 2023

Appropriation / Budget Activity / Budget Sub Activity:
1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft

P-1 Line Item Number / Title:
0588 / MQ-8 Series

ID Code (A=Service Ready, B=Not Service Ready): A **Program Elements for Code B Items:** N/A **Other Related Program Elements:** N/A

Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	1 / MQ-8 Correction of Deficiencies and Modernization (OSIP 021-14) (Readiness/Safety/Performance Sustainment)			253	- / 81.033	- / 25.754	- / 6.310	- / 7.367	- / 0.000	- / 7.367
P-3a	2 / MQ-8 Mission Control System (MCS) Readiness, Obsolescence and Safety (OSIP 009-17) (Readiness/Safety/Performance Sustainment)				- / 27.006	- / 5.637	- / 3.536	- / 2.833	- / 0.000	- / 2.833
P-3a	3 / MQ-8 Payloads (OSIP 010-17) (Readiness/Performance)				- / 53.974	- / 0.175	- / 0.000	- / 4.500	- / 0.000	- / 4.500
P-40	Total Gross/Weapon System Cost				- / 162.013	- / 31.566	- / 9.846	- / 14.700	- / 0.000	- / 14.700

Exhibits Schedule					FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	1 / MQ-8 Correction of Deficiencies and Modernization (OSIP 021-14) (Readiness/Safety/Performance Sustainment)			253	- / 18.035	- / 8.345	- / 8.572	- / 9.337	- / 4.773	- / 169.526
P-3a	2 / MQ-8 Mission Control System (MCS) Readiness, Obsolescence and Safety (OSIP 009-17) (Readiness/Safety/Performance Sustainment)				- / 4.977	- / 2.026	- / 2.021	- / 1.508	- / 0.941	- / 50.485
P-3a	3 / MQ-8 Payloads (OSIP 010-17) (Readiness/Performance)				- / 0.250	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 58.899
P-40	Total Gross/Weapon System Cost				- / 23.262	- / 10.371	- / 10.593	- / 10.845	- / 5.714	- / 278.910

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

Justification:

The FY 2024 request funds improvements via engineering change orders, for correction of deficiencies, obsolescence and safety. This includes correction of deficiencies found during operational use and deployments, improvements for maintainability, reliability and performance, safety corrections, MCS, and emerging requirements and retrofit of capabilities procured post air vehicle delivery. Funding increase supports retrofit of six (6) additional MQ-8C Air Vehicles removed from long term preservation for future deployments aboard an additional five (5) LCS.

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0588 / MQ-8 Series	Modification Number / Title: 1 / MQ-8 Correction of Deficiencies and Modernization (OSIP 021-14)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code: 253
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Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	81.033	25.754	6.310	7.367	0.000	7.367	18.035	8.345	8.572	9.337	4.773	169.526
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	81.033	25.754	6.310	7.367	0.000	7.367	18.035	8.345	8.572	9.337	4.773	169.526
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	81.033	25.754	6.310	7.367	0.000	7.367	18.035	8.345	8.572	9.337	4.773	169.526

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The Correction of Deficiencies (COD) Operational, Safety and Improvement Program (OSIP) provides resources to correct MQ-8 Air Vehicle deficiencies resulting from readiness, obsolescence, safety, performance and Diminishing Manufacturing Sources and Material Shortages (DMSMS) issues. It also provides for Pre-Planned Product Improvement (P3I) efforts that will improve and modernize system performance, reliability, and maintainability of sensors, avionics, and airframe components to support Intelligence, Surveillance and Reconnaissance (ISR) collection for both Navy and urgent operational requirements. In order to meet emerging deficiencies in the MQ-8 aircraft, integrated systems and trainers must be modified when critical corrections / changes are identified. Funds will be used to incorporate Engineering Change Proposals (ECP) and implement those changes to sustain and improve operations.

Modifications for the MQ-8 aircraft include, but are not limited to: MQ-8 payloads, Video Oriented Transceiver for Exchange of Information (VORTEX) relocation, hot weather modifications, blades, engines, control rods, heavy gauge wiring, engine accelerometers, optical tracker cable, navigation lights, corrosion prevention, light weight doors and fuel cells, Unmanned Aerial Vehicle Common Automated Recovery System (UCARS), lithium ion battery, windscreen, airframe structure, ARC-210 radios, Tactical Common Data Link (TCDL), shipboard interface system, common avionics, software, cyber security, network interfaces, processor upgrades, System Integration Lab (SIL) and Hardware in-the-Loop (HITL) enhancements, Windows 10 transition, maintenance device updates, and other related systems.

This OSIP provides funds to support modifications to address safety and readiness issues and the establishment of Organic Depot Capability for Core Repairables. Modifications will be depot-level performed by Fleet Readiness

Centers, contractor artisans, contractor field modification teams, and/or operational-level performed by organic support. Coincident with the MQ-8 deployment on the Littoral Combat Ship (LCS) class, a top ten safety issue list was developed during the program's System Safety Working Group. As solutions become available, aircraft modifications will be implemented to address critical safety issues. Identified issues include icing detection/avoidance, ground handling, airspace awareness, GPS vulnerabilities, and cyber security.

FY24 increase in funding supports procurement of additional A kits and installs for Redundancy Upgrade for UCARS to address the top safety priority for the MQ-8 as well as Global Positioning System (GPS) Anti-Jam installs and MQ-8 support cost. Changes to the current budget reflect those items still to be procured to meet the need for a total of 19 air vehicles to align with deployments aboard an additional five (5) LCS.

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Exhibit P-3a, Individual Modification: PB 2024 Navy										Date: March 2023			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0588 / MQ-8 Series					Modification Number / Title: 1 / MQ-8 Correction of Deficiencies and Modernization (OSIP 021-14)			
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code: 253						
Models of Systems Affected: MQ-8B/C				Modification Type: Readiness/Safety/Performance Sustainment				Related RDT&E PEs:					
Financial Plan		Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
(*) Indicates the modification is being installed organically and no installation funds are required.		Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Procurement													
1.1) Redundancy Upgrade for UCARS (MQ-8C) - NonOrganic ⁽¹⁾ <i>Installation 1 of 5</i>		13 / 2.089	- / -	4 / 1.146	2 / 0.573	- / -	2 / 0.573	- / -	- / -	- / -	- / -	- / -	19 / 3.808
1.2) GPS Anti-Jam A Kits (MQ-8C) - NonOrganic ⁽²⁾ <i>Installation 2 of 5</i>		13 / 1.056	- / -	4 / 0.659	2 / 0.329	- / -	2 / 0.329	- / -	- / -	- / -	- / -	- / -	19 / 2.044
1.3) Processor Upgrade Network Router (MQ-8C) - NonOrganic <i>Installation 3 of 5</i>		- / -	- / -	- / -	- / -	- / -	- / -	16 / 1.943	- / -	3 / 0.373	- / -	- / -	19 / 2.316
1.4) Processor Upgrade PIU (MQ-8C) - NonOrganic <i>Installation 4 of 5</i>		- / -	- / -	- / -	- / -	- / -	- / -	16 / 1.943	- / -	3 / 0.373	- / -	- / -	19 / 2.316
1.5) Corrosion Mitigation - Organic ⁽³⁾		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	19 / 2.850	19 / 2.850
2.1) Redundancy Upgrade for UCARS (MQ-8C) - Organic ⁽⁴⁾		26 / 4.722	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	26 / 4.722
2.2) Tail Skids (MQ-8C) - NonOrganic <i>Installation 5 of 5</i>		31 / 0.032	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	31 / 0.032
2.3) Processor Upgrade Network Router (MQ-8C) - Organic ⁽⁴⁾		- / -	- / -	- / -	- / -	- / -	- / -	16 / 0.989	- / -	3 / 0.197	- / -	- / -	19 / 1.186
2.4) Processor Upgrade PIU (MQ-8C) - Organic ⁽⁴⁾		- / -	- / -	- / -	- / -	- / -	- / -	16 / 3.164	- / -	3 / 0.629	- / -	- / -	19 / 3.793
2.5) Corrosion Mitigation - Organic ⁽⁴⁾		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	19 / 1.923	19 / 1.923
2.6) Prior Year Modifications - Organic ⁽⁴⁾		550 / 20.949	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	550 / 20.949
2.1.1) Non-Recurring Engineering for Modifications (MQ-8C) - Organic ⁽⁴⁾		- / 24.606	- / 20.256	- / 0.450	- / 0.460	- / -	- / 0.460	- / 0.470	- / 0.480	- / 1.137	- / 3.801	- / -	- / 51.660
Subtotal: Procurement		- / 53.454	- / 20.256	- / 2.255	- / 1.362	- / -	- / 1.362	- / 8.509	- / 0.480	- / 2.709	- / 3.801	- / 4.773	- / 97.599
Support													
3.1) ILS		- / 4.939	- / 1.238	- / 1.419	- / 0.920	- / -	- / 0.920	- / 0.931	- / 0.942	- / 0.954	- / 0.965	- / -	- / 12.308
3.2) Data ⁽⁵⁾		- / 1.802	- / 0.422	- / 0.428	- / 0.441	- / -	- / 0.441	- / 0.446	- / 0.451	- / 0.457	- / 0.462	- / -	- / 4.909
3.3) Training Equipment ⁽⁶⁾		- / 6.408	- / -	- / -	- / 0.585	- / -	- / 0.585	- / 4.041	- / -	- / -	- / -	- / -	- / 11.034
3.4) Support Equipment ⁽⁷⁾		- / 1.940	- / 0.340	- / 0.015	- / 0.200	- / -	- / 0.200	- / 0.202	- / 0.205	- / 0.211	- / 0.214	- / -	- / 3.327
3.5) Other Support ⁽⁸⁾		- / 12.490	- / 3.476	- / 2.193	- / 3.175	- / -	- / 3.175	- / 3.214	- / 2.225	- / 2.635	- / 2.866	- / -	- / 32.274
Subtotal: Support		- / 27.579	- / 5.476	- / 4.055	- / 5.321	- / -	- / 5.321	- / 8.834	- / 3.823	- / 4.257	- / 4.507	- / 0.000	- / 63.852
Installation													
Installation 1 of 5: Redundancy Upgrade for UCARS (MQ-8C)		- / -	- / -	- / -	- / 0.431	- / 0.000	- / 0.431	- / 0.436	- / 0.581	- / 1.016	- / 0.281	- / 0.000	- / 2.745

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0588 / MQ-8 Series	Modification Number / Title: 1 / MQ-8 Correction of Deficiencies and Modernization (OSIP 021-14)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code: 253
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Models of Systems Affected: MQ-8B/C	Modification Type: Readiness/Safety/Performance Sustainment	Related RDT&E PEs:
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Financial Plan <small>(*) Indicates the modification is being installed organically and no installation funds are required.</small>	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Installation 2 of 5: GPS Anti-Jam A Kits (MQ-8C)	- / -	- / -	- / -	- / 0.253	- / 0.000	- / 0.253	- / 0.256	- / 0.341	- / 0.590	- / 0.163	- / 0.000	- / 1.603
Installation 3 of 5: Processor Upgrade Network Router (MQ-8C)	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.320	- / -	- / 0.060	- / 0.000	- / 0.380
Installation 4 of 5: Processor Upgrade PIU (MQ-8C)	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.800	- / -	- / 0.525	- / 0.000	- / 3.325
Installation 5 of 5: Tail Skids (MQ-8C)	- / -	- / 0.022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 0.022
<i>Subtotal: Installation</i>	- / 0.000	- / 0.022	- / -	- / 0.684	- / -	- / 0.684	- / 0.692	- / 4.042	- / 1.606	- / 1.029	- / 0.000	- / 8.075
Total												
Total Cost (Procurement + Support + Installation)	81.033	25.754	6.310	7.367	0.000	7.367	18.035	8.345	8.572	9.337	4.773	169.526

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0588 / MQ-8 Series	Modification Number / Title: 1 / MQ-8 Correction of Deficiencies and Modernization (OSIP 021-14)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code: 253
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Installation 1 of 5: Redundancy Upgrade for UCARS (MQ-8C)

Manufacturer Information

Manufacturer Name: Northrop Grumman Corp	Manufacturer Location: Rancho Bernardo, CA
Administrative Leadtime (in Months): 4	Production Leadtime (in Months): 48

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates		Jan 2023	Jan 2024				
Delivery Dates		Jan 2027	Jan 2028				

Installation Information

Method of Implementation: FRC Depot/Contractor Field Mod Team:: Installation Name: Redundancy Upgrade for UCARS (MQ-8C)

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	3 / 0.431	0 / 0.000	3 / 0.431	3 / 0.436	4 / 0.581	3 / 0.446	- / -	0 / 0.000	13 / 1.894
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4 / 0.570	- / -	0 / 0.000	4 / 0.570
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.281	0 / 0.000	2 / 0.281
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	3 / 0.431	0 / 0.000	3 / 0.431	3 / 0.436	4 / 0.581	7 / 1.016	2 / 0.281	0 / 0.000	19 / 2.745

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	3	-	-	-	3	-	-	-	4	-	-	-	7	-	-	-	2	-	-	-	-
Out	-	-	-	-	-	-	-	-	-	-	3	-	-	-	3	-	-	-	4	-	-	-	7	-	-	-	2	-	-	-	-

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0588 / MQ-8 Series	Modification Number / Title: 1 / MQ-8 Correction of Deficiencies and Modernization (OSIP 021-14)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code: 253
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Installation 2 of 5: GPS Anti-Jam A Kits (MQ-8C)

Manufacturer Information

Manufacturer Name: Northrop Grumman Corp	Manufacturer Location: Rancho Bernardo, CA
Administrative Leadtime (in Months): 4	Production Leadtime (in Months): 48

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates		Jan 2023	Jan 2024				
Delivery Dates		Jan 2027	Jan 2028				

Installation Information

Method of Implementation: Depot FRC/Contractor Field Mod Team:: Installation Name: GPS Anti-Jam A Kits (MQ-8C)

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	3 / 0.253	0 / 0.000	3 / 0.253	3 / 0.256	4 / 0.341	3 / 0.260	- / -	0 / 0.000	13 / 1.110
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4 / 0.330	- / -	0 / 0.000	4 / 0.330
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.163	0 / 0.000	2 / 0.163
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	3 / 0.253	0 / 0.000	3 / 0.253	3 / 0.256	4 / 0.341	7 / 0.590	2 / 0.163	0 / 0.000	19 / 1.603

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	3	-	-	-	3	-	-	-	4	-	-	-	7	-	-	-	2	-	-	-	-
Out	-	-	-	-	-	-	-	-	-	-	3	-	-	-	3	-	-	-	4	-	-	-	7	-	-	-	2	-	-	-	-

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0588 / MQ-8 Series	Modification Number / Title: 1 / MQ-8 Correction of Deficiencies and Modernization (OSIP 021-14)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code: 253
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Installation 3 of 5: Processor Upgrade Network Router (MQ-8C)

Manufacturer Information

Manufacturer Name: Curtiss Wright	Manufacturer Location: Salt Lake City, Utah
Administrative Leadtime (in Months): 6	Production Leadtime (in Months): 12

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates				Mar 2025		Mar 2027	
Delivery Dates				Mar 2026		Mar 2028	

Installation Information

Method of Implementation: FRCSW:: Installation Name: Processor Upgrade Network Router (MQ-8C)

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	16 / 0.320	- / -	- / -	0 / 0.000	16 / 0.320
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3 / 0.060	0 / 0.000	3 / 0.060
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	- / -	- / -	- / -	- / -	16 / 0.320	- / -	3 / 0.060	0 / 0.000	19 / 0.380

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	5	6	-	-	-	-	-	1	1	1	-	19
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	5	6	-	-	-	-	-	1	1	1	-	19

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0588 / MQ-8 Series	Modification Number / Title: 1 / MQ-8 Correction of Deficiencies and Modernization (OSIP 021-14)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code: 253
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Installation 4 of 5: Processor Upgrade PIU (MQ-8C)

Manufacturer Information

Manufacturer Name: ABACO Systems	Manufacturer Location: Huntsville, Alabama
Administrative Leadtime (in Months): 6	Production Leadtime (in Months): 12

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates				Mar 2025		Mar 2027	
Delivery Dates				Mar 2026		Mar 2028	

Installation Information

Method of Implementation: FRCSW:: Installation Name: Processor Upgrade PIU (MQ-8C)

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	16 / 2.800	- / -	- / -	0 / 0.000	16 / 2.800
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3 / 0.525	0 / 0.000	3 / 0.525
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	- / -	- / -	- / -	- / -	16 / 2.800	- / -	3 / 0.525	0 / 0.000	19 / 3.325

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	5	6	-	-	-	-	-	1	1	1	-	19
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	5	6	-	-	-	-	-	1	1	1	-	19

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0588 / MQ-8 Series	Modification Number / Title: 1 / MQ-8 Correction of Deficiencies and Modernization (OSIP 021-14)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code: 253
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Installation 5 of 5: Tail Skids (MQ-8C)

Manufacturer Information

Manufacturer Name: Bell Boeing	Manufacturer Location: Ft. Worth, TX
Administrative Leadtime (in Months): 3	Production Leadtime (in Months): 10

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates							
Delivery Dates							

Installation Information

Method of Implementation: Depo FRC:: Installation Name: Tail Skids (MQ-8C)

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	12 / 0.022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	12 / 0.022
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	12 / 0.022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	12 / 0.022

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot	
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4			
In	-	3	3	3	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12
Out	-	3	3	3	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12

Footnotes:
 (1) Redundant UCARS A Kits and Installs increased to (19) and adjusted across FYDP to account for aircraft availability.
 (2) GPS Anti-Jam and Installs increased to (19) and adjusted across FYDP to account for aircraft availability.

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0588 / MQ-8 Series	Modification Number / Title: 1 / MQ-8 Correction of Deficiencies and Modernization (OSIP 021-14)
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code: 253

- (3) Corrosion Mitigation provides for correction of unknown deficiencies highly likely due to introduction of MQ-8C into the maritime environment.
- (4) FY24 Non-Recurring Engineering increase accounts for Redundancy Upgrade for UCARS.
- (5) FY24 Data increase accounts for Redundancy Upgrade for UCARS.
- (6) FY24 Training Equipment increase accounts for Trainer Upgrades and Air Vehicle testing to support Processor Upgrade and Redundant UCARS and GPS Anti-Jam ECPs.
- (7) FY24 Support Equipment increase accounts for Redundancy Upgrade for UCARS.
- (8) FY24 Other Support increase accounts for Air Vehicle testing to support Processor Upgrade and Redundant UCARS and GPS Anti-Jam ECPs.

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0588 / MQ-8 Series	Modification Number / Title: 2 / MQ-8 Mission Control System (MCS) Readiness, Obsolescence and Safety (OSIP 009-17)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	27.006	5.637	3.536	2.833	0.000	2.833	4.977	2.026	2.021	1.508	0.941	50.485
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	27.006	5.637	3.536	2.833	0.000	2.833	4.977	2.026	2.021	1.508	0.941	50.485
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	27.006	5.637	3.536	2.833	0.000	2.833	4.977	2.026	2.021	1.508	0.941	50.485

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The Mission Control System (MCS) Operational, Safety and Improvement Program (OSIP) addresses modifications to MCS and other MQ-8 ancillary equipment hardware including the Unmanned Aerial Vehicle Common Automatic Recovery System (UCARS) Track System (TS). Funding supports modifications to the MD4 Mission Control System (MCS) and the Unmanned Aerial Vehicle Common Automatic Recovery System (UCARS) to address component obsolescence and DMSMS. Non-recurring engineering has been completed to support production. This effort procures the kits required and funds the retrofit of shipboard MD-4 MCS equipment onboard Littoral Combat Ships (LCS), Expeditionary Sea Base (ESB), and other suitably equipped air-capable ships, and shore-based MCS equipment installed at fleet locations. The quantities and schedules for MCS and UCARS components are based on host ship requirements, while quantities and schedules for air vehicle components, support equipment, and training equipment are based on operational deployment plans.

FY24 increase in funding supports procurement of A-Kits for MCS Uninterruptable Power Supply (UPS) and A-Kits for Anti-Jam GPS Antenna modifications.

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0588 / MQ-8 Series	Modification Number / Title: 2 / MQ-8 Mission Control System (MCS) Readiness, Obsolescence and Safety (OSIP 009-17)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Models of Systems Affected: [No Model Specified]	Modification Type: Readiness/Safety/Performance Sustainment	Related RDT&E PEs:
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Financial Plan <small>(* Indicates the modification is being installed organically and no installation funds are required.)</small>	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Procurement												
1.1.1) MCS Upgrade EXCOMM Phase II (Ship Based) - NonOrganic <i>Installation 1 of 4</i>	12 / 10.879	3 / 2.901	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	15 / 13.780
1.1.2) Archived Mod - Organic ^(*)	16 / 9.549	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	16 / 9.549
1.1.3) EXCOMM UPS replacement - NonOrganic <i>Installation 2 of 4</i>	- / -	- / -	- / -	6 / 0.520	- / -	6 / 0.520	18 / 1.550	- / -	- / -	- / -	- / -	24 / 2.070
1.1.4) GPS Anti Jam Antenna upgrade - NonOrganic <i>Installation 3 of 4</i>	- / -	- / -	- / -	2 / 0.176	- / -	2 / 0.176	14 / 1.232	- / -	- / -	- / -	- / -	16 / 1.408
1.1.5) MD-4C Shipboard Upgrade - NonOrganic <i>Installation 4 of 4</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 1.162	- / -	- / -	1 / 1.162
1.1.6) Non-Recurring for MCS Modifications - Organic ^(*)	- / 0.589	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.589
Subtotal: Procurement	- / 21.017	- / 2.901	- / -	- / 0.696	- / -	- / 0.696	- / 2.782	- / -	- / 1.162	- / -	- / 0.000	- / 28.558
Support												
2.1) ILS ⁽⁹⁾	- / 0.046	- / -	- / 0.368	- / 0.377	- / -	- / 0.377	- / 0.382	- / 0.216	- / 0.234	- / 0.238	- / 0.243	- / 2.104
2.2) Other Support ⁽¹⁰⁾	- / 0.872	- / 0.139	- / 0.710	- / 1.760	- / -	- / 1.760	- / 0.974	- / 0.613	- / 0.625	- / 0.637	- / 0.698	- / 7.028
Subtotal: Support	- / 0.918	- / 0.139	- / 1.078	- / 2.137	- / -	- / 2.137	- / 1.356	- / 0.829	- / 0.859	- / 0.875	- / 0.941	- / 9.132
Installation												
Installation 1 of 4: MCS Upgrade EXCOMM Phase II (Ship Based)	- / 5.071	- / 2.597	- / 2.458	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 10.126
Installation 2 of 4: EXCOMM UPS replacement	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.527	- / 0.479	- / -	- / -	- / 0.000	- / 1.006
Installation 3 of 4: GPS Anti Jam Antenna upgrade	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.312	- / 0.718	- / -	- / -	- / 0.000	- / 1.030
Installation 4 of 4: MD-4C Shipboard Upgrade	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.633	- / 0.000	- / 0.633
Subtotal: Installation	- / 5.071	- / 2.597	- / 2.458	- / -	- / -	- / -	- / 0.839	- / 1.197	- / -	- / 0.633	- / 0.000	- / 12.795
Total												
Total Cost (Procurement + Support + Installation)	27.006	5.637	3.536	2.833	0.000	2.833	4.977	2.026	2.021	1.508	0.941	50.485

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0588 / MQ-8 Series	Modification Number / Title: 2 / MQ-8 Mission Control System (MCS) Readiness, Obsolescence and Safety (OSIP 009-17)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Installation 1 of 4: MCS Upgrade EXCOMM Phase II (Ship Based)

Manufacturer Information

Manufacturer Name: NAWC-AD - MCS Upgrade EXCOMM Phase II ⁽¹¹⁾	Manufacturer Location: NAS Patuxent River, MD
Administrative Leadtime (in Months): 3	Production Leadtime (in Months): 10

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates	Dec 2021						
Delivery Dates	Oct 2022						

Installation Information

Method of Implementation: Govt Field Mod Team:: Installation Name: MCS Upgrade EXCOMM Phase II (Ship Based)

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	8 / 5.071	4 / 2.597	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	12 / 7.668
FY 2022	- / -	- / -	3 / 2.458	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	3 / 2.458
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	8 / 5.071	4 / 2.597	3 / 2.458	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	15 / 10.126

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	8	4	-	-	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Out	8	4	-	-	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0588 / MQ-8 Series	Modification Number / Title: 2 / MQ-8 Mission Control System (MCS) Readiness, Obsolescence and Safety (OSIP 009-17)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Installation 2 of 4: EXCOMM UPS replacement

Manufacturer Information

Manufacturer Name: NAWC WOLF - EXCOMM UPS Retrofit Manufacturer Location: NAS Patuxent River, MD

Administrative Leadtime (in Months): 3 Production Leadtime (in Months): 12

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates			Dec 2023	Dec 2024			
Delivery Dates			Dec 2024	Dec 2025			

Installation Information

Method of Implementation: Govt Field Mod Team:: Installation Name: EXCOMM UPS replacement

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	6 / 0.527	- / -	- / -	- / -	0 / 0.000	6 / 0.527
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	18 / 0.479	- / -	- / -	0 / 0.000	18 / 0.479
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	- / -	- / -	- / -	6 / 0.527	18 / 0.479	- / -	- / -	0 / 0.000	24 / 1.006

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot				
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4						
In	-	-	-	-	-	-	-	-	-	-	-	-	-	6	-	-	-	18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	-	-	-	-	18	-	-	-	-	-	-	-	-	-	-	-	-	-	-

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0588 / MQ-8 Series	Modification Number / Title: 2 / MQ-8 Mission Control System (MCS) Readiness, Obsolescence and Safety (OSIP 009-17)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Installation 3 of 4: GPS Anti Jam Antenna upgrade

Manufacturer Information

Manufacturer Name: NAWC WOLF - GPS Anti-Jam Antenna Upgrade	Manufacturer Location: NAS Patuxent River, MD
Administrative Leadtime (in Months): 3	Production Leadtime (in Months): 12

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates			Dec 2023	Dec 2024			
Delivery Dates			Dec 2024	Dec 2025			

Installation Information

Method of Implementation: Govt Field Mod Team:: Installation Name: GPS Anti Jam Antenna upgrade

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.312	- / -	- / -	- / -	0 / 0.000	2 / 0.312
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	14 / 0.718	- / -	- / -	0 / 0.000	14 / 0.718
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.312	14 / 0.718	- / -	- / -	0 / 0.000	16 / 1.030

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot				
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4						
In	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	14	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	14	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0588 / MQ-8 Series	Modification Number / Title: 2 / MQ-8 Mission Control System (MCS) Readiness, Obsolescence and Safety (OSIP 009-17)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Installation 4 of 4: MD-4C Shipboard Upgrade

Manufacturer Information

Manufacturer Name: NAWC WOLF - MD-4C Shipboard Upgrade	Manufacturer Location: NAS Patuxent River, MD
Administrative Leadtime (<i>in Months</i>): 3	Production Leadtime (<i>in Months</i>): 12

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates						Dec 2026	
Delivery Dates						Dec 2027	

Installation Information

Method of Implementation: Govt Field Mod Team:: Installation Name: MD-4C Shipboard Upgrade

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.633	0 / 0.000
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.633	0 / 0.000

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-

Footnotes:
 (9) FY24 Increase in ILS is attributed to inflation.
 (10) FY24 Increase in Other Support provides for EXCOMM Phase II ECP closeout activities and engineering oversight for EXCOMM UPS replacement and Anti-Jam GPS ECPs.

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0588 / MQ-8 Series	Modification Number / Title: 2 / MQ-8 Mission Control System (MCS) Readiness, Obsolescence and Safety (OSIP 009-17)
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:
<p>⁽¹¹⁾ Installation of shipboard MCS EXCOMM Phase II modification kits support LCS Mine Counter Measure (MCM) and Surface Warfare (SUW) missions.</p>		

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Exhibit P-3a, Individual Modification: PB 2024 Navy	Date: March 2023
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Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0588 / MQ-8 Series	Modification Number / Title: 3 / MQ-8 Payloads (OSIP 010-17)
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ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	53.974	0.175	0.000	4.500	0.000	4.500	0.250	0.000	0.000	0.000	0.000	58.899
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	53.974	0.175	0.000	4.500	0.000	4.500	0.250	0.000	0.000	0.000	0.000	58.899
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	53.974	0.175	0.000	4.500	0.000	4.500	0.250	0.000	0.000	0.000	0.000	58.899

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The MQ-8 Payloads Operational, Safety and Improvement Program (OSIP) addresses modifications to the MQ-8 Fire Scout System which adds new Radar payloads and adds capability and reliability improvements to existing payloads.

The Radar payload includes the integration of a competitively-selected non-developmental item Radar with the air vehicle, Minotaur data correlation and resource management software and hardware, and Mission Control Station (MCS). This capability improves the MQ-8 Fire Scout's performance in support of Surface Warfare (SUW) Mission Module for the Littoral Combat Ship (LCS) and urgent operational requirements. The hardware and software modifications to the air vehicle and MCS were incorporated into the MQ-8 Fire Scout Mission System Trainer, Avionics Technicians' Trainer, and Aircraft Mechanics' Trainer to include the upgrades. Delivered MQ-8C air vehicles in active inventory were retrofit for the upgrades via radar A-kits at the Contractors site and via organic installation.

Payload modifications to the active MQ-8C inventory were completed in FY22. FY24 increase in funding supports fielding of the MQ-8C aboard an additional five (5) LCS, resulting in an increase in the active inventory. As a result, FY24 funds retrofit of the additional Air Vehicles to the current RADAR payload baseline.

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Exhibit P-3a, Individual Modification: PB 2024 Navy										Date: March 2023				
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0588 / MQ-8 Series					Modification Number / Title: 3 / MQ-8 Payloads (OSIP 010-17)				
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:							
Models of Systems Affected: [No Model Specified]				Modification Type: Readiness/Performance				Related RDT&E PEs:						
Financial Plan <small>(*) Indicates the modification is being installed organically and no installation funds are required.</small>	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total		
	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>		
Procurement														
1.1.1) Radar (MQ-8C) - NonOrganic ⁽¹²⁾ <i>Installation 1 of 1</i>	18 / 17.301	- / -	- / -	1 / 0.250	- / -	1 / 0.250	- / -	- / -	- / -	- / -	- / -	19 / 17.551		
2.1.1) Radar Upgrade II (MQ-8C) - Organic ⁽¹³⁾	14 / 17.314	- / -	- / -	1 / 3.000	- / -	1 / 3.000	- / -	- / -	- / -	- / -	- / -	15 / 20.314		
2.2.1) Non-Recurring Engineering - Organic ⁽⁷⁾	- / 8.145	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 8.145		
<i>Subtotal: Procurement</i>	- / 42.760	- / -	- / -	- / 3.250	- / -	- / 3.250	- / -	- / -	- / -	- / -	- / 0.000	- / 46.010		
Support														
3.1) ILS	- / 1.709	- / 0.097	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.806		
3.2) Data	- / 0.780	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.780		
3.3) Training Equip.	- / 1.250	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.250		
3.4) Support Equip.	- / 0.316	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.316		
3.5) Other Support	- / 2.209	- / 0.078	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.287		
<i>Subtotal: Support</i>	- / 6.264	- / 0.175	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 6.439		
Installation														
<i>Installation 1 of 1: Radar (MQ-8C)</i>	- / 4.950	- / -	- / -	- / 1.250	- / 0.000	- / 1.250	- / 0.250	- / -	- / -	- / -	- / 0.000	- / 6.450		
<i>Subtotal: Installation</i>	- / 4.950	- / -	- / -	- / 1.250	- / -	- / 1.250	- / 0.250	- / -	- / -	- / -	- / 0.000	- / 6.450		
Total														
Total Cost (Procurement + Support + Installation)	53.974	0.175	0.000	4.500	0.000	4.500	0.250	0.000	0.000	0.000	0.000	58.899		

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Exhibit P-3a, Individual Modification: PB 2024 Navy **Date:** March 2023

Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0588 / MQ-8 Series	Modification Number / Title: 3 / MQ-8 Payloads (OSIP 010-17)
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ID Code (A=Service Ready, B=Not Service Ready) : **MDAP/MAIS Code:**

Installation 1 of 1: Radar (MQ-8C)

Manufacturer Information

Manufacturer Name: Northrop Grumman - Radar (MQ-8C)	Manufacturer Location: Rancho Bernardo, CA
Administrative Leadtime (in Months): 8	Production Leadtime (in Months): 12

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates			May 2024				
Delivery Dates			May 2025				

Installation Information

Method of Implementation: FY19-FY21 NGC/FY22 and out: Depot (FRC):: Installation Name: Radar (MQ-8C)

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	13 / 4.950	- / -	- / -	5 / 1.250	0 / 0.000	5 / 1.250	- / -	- / -	- / -	- / -	0 / 0.000	18 / 6.200
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.250	- / -	- / -	- / -	0 / 0.000	1 / 0.250
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	13 / 4.950	- / -	- / -	5 / 1.250	0 / 0.000	5 / 1.250	1 / 0.250	- / -	- / -	- / -	0 / 0.000	19 / 6.450

Installation Schedule

PYS	FY 2022	FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot					
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4							
In	13	-	-	-	-	-	-	-	-	1	1	1	2	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	19
Out	13	-	-	-	-	-	-	-	-	1	1	1	2	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	19

Footnotes:
 (12) FY24 increase is to procure (1) additional ZPY-8 RADAR A Kit in FY24 to support upgrading a total of (19) Air Vehicles. Radar installs in FY24 is utilizing kits from prior years procurement.
 (13) FY24 increase is to procure (1) additional ZPY-8 RADAR B Kit in FY24 to support upgrading a total of (19) Air Vehicles.

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Exhibit P-40, Budget Line Item Justification: PB 2024 Navy **Date: March 2023**

Appropriation / Budget Activity / Budget Sub Activity: 1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft	P-1 Line Item Number / Title: 0590 / V-22 (Tilt/Rotor Acft) Osprey
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: 212

Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	2,402.699	250.512	233.128	215.997	0.000	215.997	248.410	279.337	306.218	335.243	1,956.086	6,227.630
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	2,402.699	250.512	233.128	215.997	0.000	215.997	248.410	279.337	306.218	335.243	1,956.086	6,227.630
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	2,402.699	250.512	233.128	215.997	0.000	215.997	248.410	279.337	306.218	335.243	1,956.086	6,227.630

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

This line item funds modifications to the Navy's V-22 aircraft. The V-22 is a tilt-rotor, Vertical/Short Takeoff and Landing (V/STOL) aircraft for Joint Service applications. The Navy acts as the lead service with support from the United States Air Force (USAF) co-located in the V-22 Program Office. The V-22 Program is designed to provide an aircraft to meet the amphibious/vertical assault needs of the United States Marine Corps (USMC), the Carrier Onboard Delivery (COD) needs of the Navy, and the special operations needs of the USAF and United States Special Operations Command (USSOCOM). The MV-22 variant replaced the CH-46E in the Marine Corps and the CMV-22 will replace the C-2A in the Navy. The CV-22 variant replaced the MH-53J, and is providing a new capability and augments the MC-130 in the USAF/ USSOCOM inventory for special operations infiltration, exfiltration, and resupply missions. The V-22 is capable of flying over 2,100 nautical miles with a single refueling, giving the Services the advantage of a V/STOL aircraft able to rapidly self-deploy to any location in the world. This line item funds modifications in support of 322 MV-22s and 37 CMVs that will be delivered through FY 2024. The total planned modifications throughout the Future Year's Defense Program for MV-22 is 333 and 48 CMV-22.

OSIP 022-01 MV-22 Correction of Deficiencies provides near and long term improvements to the fleet, focusing on documented deficiencies related to safety, maintainability, and aircraft systems. FY 2024 will continue Iridium Antenna installation upgrades as well as installation of previous kit procurements.

OSIP 028-12 MV-22 Readiness supports the correction of readiness degraders impacting MV-22 cost per flight hour, Reliability, Maintainability, and Availability (RM&A), obsolescence, and reduction of life-cycle costs. In order to meet the goal of increasing readiness, the airframe and integrated systems must be modified as critical RM&A issues are identified. The reliability and readiness initiatives included in this OSIP will have a significant positive impact to the MV-22 aircraft platform. FY 2024 will start kit procurements for ODSSHI in support of the high priority HCE effort.

OSIP 011-17 MV-22 Common Configuration OSIP will adhere to a block upgrade construct and provide the iterative baseline capabilities to posture the MV-22 for success in the increasingly dynamic warfighter environment. The configuration modification lines will focus on ECPs aimed at improving readiness, achieving common configuration, and reducing Life Cycle Costs ensuring alignment with Commandant of the Marine Corps Force Design 2030 (FD2030) objectives. In FY 2024, BLK 25 will start to ramp up in order to meet the demands of the new modification lines.

OSIP 009-19 MV-22 Avionics Improvements incorporates changes to MV-22 avionics systems. Avionics modifications to the MV-22 will improve display reliability, eliminate communication security issues and alleviate parts obsolescence/vendor problems. Improvements to safety of flight, maintenance, obsolescence (Diminishing Manufacturing Sources/Material Shortages), and readiness degrader items will yield a more interoperable and survivable V-22 force to sustain warfighter capability in support of worldwide operations. In FY 2024, Common Electronic Standby Indicator (CESI) will start to procure kits that will replace the current SFI on all MV-22s.

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Exhibit P-40, Budget Line Item Justification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft		P-1 Line Item Number / Title: 0590 / V-22 (Tilt/Rotor Acft) Osprey
ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
Line Item MDAP/MAIS Code: 212		
<p>OSIP 005-20 CMV-22 Improvements will support modifications of delivered CMV-22 aircraft for both improved and critical capabilities. These Engineering Change Proposals (ECPs) are crucial for the CMV-22 to support the Carrier Strike Group/Expeditionary Strike Group while performing the COD mission. Interoperability will be achieved through the incorporation of the Link-16 system and secure Military Satellite (MILSAT) connectivity through integration of Mobile Users Objective System (MUOS). FY 2024 continues procuring and installing Comms Upgrades and Garmin kits.</p>		

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Exhibit P-40, Budget Line Item Justification: PB 2024 Navy **Date: March 2023**

Appropriation / Budget Activity / Budget Sub Activity:
1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft

P-1 Line Item Number / Title:
0590 / V-22 (Tilt/Rotor Acft) Osprey

ID Code (A=Service Ready, B=Not Service Ready): A **Program Elements for Code B Items:** N/A **Other Related Program Elements:** N/A

Line Item MDAP/MAIS Code: 212

Exhibits Schedule					Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	1 / MV-22 Correction of Deficiencies (OSIP 022-01) (Safety, Reliability, Increased Service Life, Improved Mission Capability)				- / 1,188.934	- / 4.575	- / 4.690	- / 4.755	- / 0.000	- / 4.755
P-3a	2 / MV-22 Readiness (OSIP 028-12) (Reliability, Cost-per-flight hour, Reduction in Total Ownership cost)				- / 357.740	- / 91.716	- / 71.618	- / 63.340	- / 0.000	- / 63.340
P-3a	3 / MV-22 Common Configuration (OSIP 011-17) (Safety, Reliability, Increased Service Life, Improved Mission Capability)				- / 651.674	- / 43.626	- / 64.292	- / 62.181	- / 0.000	- / 62.181
P-3a	4 / MV-22 Avionics Improvements (OSIP 009-19) (Safety, Reliability, Increased Service Life, Improved Mission Capability)				- / 176.486	- / 87.383	- / 71.713	- / 54.932	- / 0.000	- / 54.932
P-3a	5 / CMV-22 Improvements (OSIP 005-20) (Safety, Improved Mission Capability)				- / 27.865	- / 23.212	- / 20.815	- / 30.789	- / 0.000	- / 30.789
P-40	Total Gross/Weapon System Cost				- / 2,402.699	- / 250.512	- / 233.128	- / 215.997	- / 0.000	- / 215.997

Exhibits Schedule					FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	1 / MV-22 Correction of Deficiencies (OSIP 022-01) (Safety, Reliability, Increased Service Life, Improved Mission Capability)				- / 2.699	- / 2.133	- / 2.164	- / 1.822	- / 1.814	- / 1,213.586
P-3a	2 / MV-22 Readiness (OSIP 028-12) (Reliability, Cost-per-flight hour, Reduction in Total Ownership cost)				- / 74.044	- / 94.066	- / 94.490	- / 101.858	- / 472.970	- / 1,421.842
P-3a	3 / MV-22 Common Configuration (OSIP 011-17) (Safety, Reliability, Increased Service Life, Improved Mission Capability)				- / 89.539	- / 88.580	- / 90.086	- / 85.890	- / 145.587	- / 1,321.455
P-3a	4 / MV-22 Avionics Improvements (OSIP 009-19) (Safety, Reliability, Increased Service Life, Improved Mission Capability)				- / 57.574	- / 59.949	- / 81.059	- / 107.018	- / 1,106.222	- / 1,802.336
P-3a	5 / CMV-22 Improvements (OSIP 005-20) (Safety, Improved Mission Capability)				- / 24.554	- / 34.609	- / 38.419	- / 38.655	- / 229.493	- / 468.411
P-40	Total Gross/Weapon System Cost				- / 248.410	- / 279.337	- / 306.218	- / 335.243	- / 1,956.086	- / 6,227.630

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

Justification:
The overall goal of the modifications budgeted in FY 2024 is to maintain commonality, implement structural safety and reliability improvements, and improve capability. These modifications will also improve readiness, increase aircraft availability, and decrease operating costs. FY 2024 focus will be on reducing flight hour costs, and improving Time On Wing, as reflected in the Readiness Operational Safety Improvement Program (OSIP).

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0590 / V-22 (Tilt/Rotor Acft) Osprey	Modification Number / Title: 1 / MV-22 Correction of Deficiencies (OSIP 022-01)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	1,188.934	4.575	4.690	4.755	0.000	4.755	2.699	2.133	2.164	1.822	1.814	1,213.586
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	1,188.934	4.575	4.690	4.755	0.000	4.755	2.699	2.133	2.164	1.822	1.814	1,213.586
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	1,188.934	4.575	4.690	4.755	0.000	4.755	2.699	2.133	2.164	1.822	1.814	1,213.586

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

OSIP 022-01 MV-22 Correction of Deficiencies provides near and long term improvements to the fleet, focusing on documented deficiencies related to safety, maintainability, and aircraft systems. These modifications and selected component changes are being accomplished by field retrofit. In order to meet emerging deficiencies the airframe and integrated systems must be modified as critical corrections/ changes are identified. This modification program may be required to provide timely remedial action for any aircraft system, component or structure.

AVIONICS: Avionics modifications to the MV-22 will improve display reliability, eliminate communication security issues and alleviate parts obsolescence/vendor problems. Modifications to the various avionics software configuration items being incorporated into the fleet aircraft also require updates to the Collaborative Automated Maintenance Environment Optimized (CAMEO), Interactive Electronic Tech Manual (IETMs), and mission planning systems. Specifically for the mission planning system, the V-22 Unique Planning Component (UPC) for the Joint Mission Planning System (JMPS) must implement frequent software updates in conjunction with production aircraft performance and software changes. Changes to the JMPS UPC in accordance with the functional requirements document (FRD) must include mission planning specific software regression tests to ensure proper operation and integration with other aircraft UPCs within JMPS.

COCKPIT: Changes to the MV-22 cockpit will improve crew safety, mission suitability, and overall reliability.

Current Engineering Change Proposals (ECP):

ECP 0964 Enhanced Crash Survivable Memory Unit (Cockpit Voice Recorder (CVR)): To protect aircraft flight information and facilitate post-mishap investigations, a crash-survivable recorder capable of recording aircraft parametric data and aircrew voice communications.

ECP 0975A1 Iridium Antenna: Iridium Antenna is connected to the Troop Commander Station panel allowing ready access to the antenna by systems/equipment (such as brought on to the MV-22 for mission specific operations). Enables ground forces to have access to Distributed Tactical Communication Systems while aboard MV-22s. Forty-nine kits were separately procured by the Prototype Integration Facility Redstone Arsenal, Alabama via Marine Corps Systems Command.

Cockpit Intercommunications System (ICS) Harness: (Future ECP) The current high strain on the Pilot/Co-Pilot headset harness airframe mounting configuration results in frequent failure of the cockpit ICS connection to the pilot helmet. The existing harnesses are routed behind the pilot seats; making it impossible to quickly troubleshoot or replace and causes reduced mission availability. The ECP creates a quick disconnect in the ICS harness to allow rapid remove and replacement capability for improved mission availability.

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Exhibit P-3a, Individual Modification: PB 2024 Navy										Date: March 2023			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0590 / V-22 (Tilt/Rotor Acft) Osprey					Modification Number / Title: 1 / MV-22 Correction of Deficiencies (OSIP 022-01)			
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: V-22 Series				Modification Type: Safety, Reliability, Increased Service Life, Improved Mission Capability				Related RDT&E PEs: 0604262N					
Financial Plan <small>(*) Indicates the modification is being installed organically and no installation funds are required.</small>	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total	
	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	
Procurement													
1.1.1) ECP 0964 Cockpit Voice Recorder (CVR) - NonOrganic ⁽¹⁾ <i>Installation 1 of 2</i>	68 / 3.822	27 / 0.524	44 / 0.855	30 / 0.870	- / -	30 / 0.870	30 / 0.884	30 / 0.899	30 / 0.915	18 / 0.558	- / -	277 / 9.327	
1.1.2) ECP 0975A1 Iridium Antenna - NonOrganic <i>Installation 2 of 2</i>	147 / 0.299	48 / 0.110	48 / 0.112	42 / 0.100	- / -	42 / 0.100	- / -	- / -	- / -	- / -	- / -	285 / 0.621	
1.1.3) Cockpit ICS Harness - Organic ^(*)	- / -	- / -	120 / 0.146	120 / 0.148	- / -	120 / 0.148	93 / 0.117	- / -	- / -	- / -	- / -	333 / 0.411	
1.1.4) Archived ECPs - Organic ^(*)	6,457 / 596.031	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	6,457 / 596.031	
1.2.1) Installation A Kit N/R - Organic ^(*)	- / 164.996	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 164.996	
2.1.1) Archived B Kits - Organic ^(*)	234 / 63.820	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	234 / 63.820	
2.2.1) Installation Equipment N/R - Organic ^(*)	- / 0.577	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.577	
Subtotal: Procurement	- / 829.545	- / 0.634	- / 1.113	- / 1.118	- / -	- / 1.118	- / 1.001	- / 0.899	- / 0.915	- / 0.558	- / 0.000	- / 835.783	
Support													
3.1) Software Modifications	- / 10.314	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 10.314	
3.2) Data	- / 1.558	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.558	
3.3) Training Equipment	- / 243.088	- / 1.382	- / 1.405	- / 1.429	- / -	- / 1.429	- / -	- / -	- / -	- / -	- / -	- / 247.304	
3.4) Support Equipment	- / 12.466	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 12.466	
3.5) ILS	- / 17.224	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 17.224	
3.6) Other Support	- / 83.733	- / 1.041	- / 1.059	- / 1.077	- / -	- / 1.077	- / 0.176	- / 0.179	- / 0.176	- / 0.173	- / -	- / 87.614	
Subtotal: Support	- / 358.383	- / 2.423	- / 2.464	- / 2.506	- / -	- / 2.506	- / 0.176	- / 0.179	- / 0.176	- / 0.173	- / 0.000	- / 366.480	
Installation													
Installation 1 of 2: ECP 0964 Cockpit Voice Recorder (CVR)	- / -	- / 1.348	- / 0.903	- / 0.918	- / 0.000	- / 0.918	- / 1.522	- / 1.055	- / 1.073	- / 1.091	- / 1.814	- / 9.724	
Installation 2 of 2: ECP 0975A1 Iridium Antenna	- / 1.006	- / 0.170	- / 0.210	- / 0.213	- / 0.000	- / 0.213	- / 0.000	- / -	- / -	- / -	- / 0.000	- / 1.599	
Subtotal: Installation	- / 1.006	- / 1.518	- / 1.113	- / 1.131	- / -	- / 1.131	- / 1.522	- / 1.055	- / 1.073	- / 1.091	- / 1.814	- / 11.323	
Total													
Total Cost (Procurement + Support + Installation)	1,188.934	4.575	4.690	4.755	0.000	4.755	2.699	2.133	2.164	1.822	1.814	1,213.586	

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0590 / V-22 (Tilt/Rotor Acft) Osprey	Modification Number / Title: 1 / MV-22 Correction of Deficiencies (OSIP 022-01)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Installation 1 of 2: ECP 0964 Cockpit Voice Recorder (CVR)

Manufacturer Information

Manufacturer Name: Bell Boeing	Manufacturer Location: Various
Administrative Leadtime (in Months): 1	Production Leadtime (in Months): 30

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates	Oct 2021	Oct 2022	Oct 2023	Oct 2024	Oct 2025	Oct 2026	Oct 2027
Delivery Dates	Apr 2024	Apr 2025	Apr 2026	Apr 2027	Apr 2028	Apr 2029	Apr 2030

Installation Information

Method of Implementation: Field Mod Team:: Installation Name: ECP 0964 Cockpit Voice Recorder (CVR)

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	21 / 1.348	34 / 0.903	13 / 0.000	0 / 0.000	13 / 0.000	- / -	- / -	- / -	- / -	0 / 0.000	68 / 2.251
FY 2022	- / -	- / -	- / -	14 / 0.918	0 / 0.000	14 / 0.918	13 / 0.000	- / -	- / -	- / -	0 / 0.000	27 / 0.918
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	22 / 1.522	22 / 0.000	- / -	- / -	0 / 0.000	44 / 1.522
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	16 / 1.055	14 / 0.000	- / -	0 / 0.000	30 / 1.055
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	16 / 1.073	14 / 0.000	0 / 0.000	30 / 1.073
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	16 / 1.091	14 / 0.000	30 / 1.091
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	30 / 1.110	30 / 1.110
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	18 / 0.704	18 / 0.704
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	21 / 1.348	34 / 0.903	27 / 0.918	0 / 0.000	27 / 0.918	35 / 1.522	38 / 1.055	30 / 1.073	30 / 1.091	62 / 1.814	277 / 9.724

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	11	10	10	10	7	7	7	6	7	7	7	6	11	11	11	11	8	8	7	7	8	8	7	7	8	8	62	277
Out	-	-	-	11	10	10	10	7	7	7	6	7	7	7	6	11	11	11	11	8	8	7	7	8	8	7	7	8	8	62	277

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0590 / V-22 (Tilt/Rotor Acft) Osprey	Modification Number / Title: 1 / MV-22 Correction of Deficiencies (OSIP 022-01)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Installation 2 of 2: ECP 0975A1 Iridium Antenna

Manufacturer Information

Manufacturer Name: Bell Boeing	Manufacturer Location: Various
Administrative Leadtime (in Months): 3	Production Leadtime (in Months): 8

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates	Dec 2021	Dec 2022	Dec 2023				
Delivery Dates	Aug 2022	Aug 2023	Aug 2024				

Installation Information

Method of Implementation: Field Mod Team:: Installation Name: ECP 0975A1 Iridium Antenna

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	111 / 1.006	36 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	147 / 1.006
FY 2022	- / -	12 / 0.170	36 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	48 / 0.170
FY 2023	- / -	- / -	12 / 0.210	36 / 0.000	0 / 0.000	36 / 0.000	- / -	- / -	- / -	- / -	0 / 0.000	48 / 0.210
FY 2024	- / -	- / -	- / -	12 / 0.213	0 / 0.000	12 / 0.213	30 / 0.000	- / -	- / -	- / -	0 / 0.000	42 / 0.213
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	111 / 1.006	48 / 0.170	48 / 0.210	48 / 0.213	0 / 0.000	48 / 0.213	30 / 0.000	- / -	- / -	- / -	0 / 0.000	285 / 1.599

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	111	12	12	12	12	12	12	12	12	12	12	12	12	12	12	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Out	111	12	12	12	12	12	12	12	12	12	12	12	12	12	12	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Footnotes:
 (1) ECP 0964 Cockpit Voice Recorder (CVR) - Aircraft previously recorded in prior year have been reduced to account for installs that were delayed due to aircraft availability. Prior installs are now phased across the FYDP to reflect updated Mod schedule. There is a 19 month lead time, which justifies the need for procurements in FY 2024. Also, installs with zero dollars associated quantities are fully funded and have a period of performance that crosses fiscal years.

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Exhibit P-3a, Individual Modification: PB 2024 Navy										Date: March 2023		
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0590 / V-22 (Tilt/Rotor Acft) Osprey						Modification Number / Title: 2 / MV-22 Readiness (OSIP 028-12)		
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:					
Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	357.740	91.716	71.618	63.340	0.000	63.340	74.044	94.066	94.490	101.858	472.970	1,421.842
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	357.740	91.716	71.618	63.340	0.000	63.340	74.044	94.066	94.490	101.858	472.970	1,421.842
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	357.740	91.716	71.618	63.340	0.000	63.340	74.044	94.066	94.490	101.858	472.970	1,421.842
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

OSIP 028-12 MV-22 Readiness is for the correction of readiness degraders impacting MV-22 cost per flight hour, RM&A, obsolescence, and reduction of life-cycle costs. These modifications will be by field retrofit and implemented to coincide with resources and aircraft availability. To meet the goal of increasing readiness, the airframe and integrated systems must be modified. As critical RM&A issues are identified, the reliability and readiness initiatives included in this OSIP will have a significant positive impact to the MV-22 aircraft platform.

POWER TRANSMISSION AND CONTROL: Changes to the MV-22 Power Transmission and Control System will improve reliability and maintainability.

COCKPIT: Changes to the V-22 cockpit will improve crew safety, mission suitability, and overall reliability.

STRUCTURAL: Structural changes to the MV-22 will increase survivability, improve maintainability and aircraft availability, eliminate component interferences, improve suitability, and correct safety related issues.

Current ECPs:

ECP 0957 Aircraft Bus Tie Circuit Reliability Improvement: To provide the ability to power all buses with a battery start of the Auxiliary Power Unit (APU) in the event of a failed Regulated Converter.

ECP 1206 Auxiliary Power Unit (APU) K8/K9 Improvement: Improve power distribution contactors K8 and K9 that provide power during APU starts. This change will provide appropriately-rated contactors to prevent damage to the APU, other power distribution components, and the aircraft.

ECP 1115.1 Conversion Area Harness (CAH): Increase reliability of the CAH by upgrading the harness, wire type, ribbons, and connectors.

ECP 1014.2 Drive Link/Proprotor Hub Spring Change: The drive link and hub spring are critical components of the Proprotor Hub Assembly. This effort will reduce the current safety risk and improve readiness of aircraft.

ECP 1075 Engine Thermo-Couple Wire Harness: The purpose of this change is to address safety issues by replacing the copper wire with thermocouple wire (Chromel-Alumel material) and eliminate a source of Measured Gas Temperature calculation errors.

ECP 0163 Gimbal Ring Joint: This modification will increase mean time between failures of the swashplate and hub assembly (which includes the gimbal assembly).

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0590 / V-22 (Tilt/Rotor Acft) Osprey	Modification Number / Title: 2 / MV-22 Readiness (OSIP 028-12)
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:
<p>ECP 1120 Manual Override Switches (MOS) for Environmental Bus Contactors: To incorporate a manual override switch so that in the event of a dual-Variable Frequency Generator (VFG) failure the aircrew can ensure the continued ability to power both Environmental Busses and all Fuel Pumps with the Constant Frequency Generators (CFG), and make certain all fuel on the aircraft can be utilized during a dual-VFG failure.</p> <p>ECP 1120 PDP-2: To add Power Distribution Panel (PDP) #2 Test Ports to MV D0164-D0194, CV D01027-D1035 Lot 14 aircraft. This will assist the maintainers when troubleshooting is performed.</p> <p>ECP 0962 V-22 Proprotor Gear Box (PRGB) Input Quill/Clutch Upgrade: Eliminate resident issues with Input Quill and clutch and to purge fleet of Thin Densid Chrome. Upgrade of the PRGB Input Quill overrunning clutch to change sprag engagement characteristics. The development of an improved PRGB Input Quill and Clutch that is less prone to slipping. Therefore, it will be less prone to hard clutch engagements, which is a category 1-D Serious Safety risk to the V-22 fleet. This effort will be a 2-Part ECP. Step 1 will provide for the development, procurement of prototypes, and qualification testing of the improved design. Step 2 will procure kits and spares and implement the improved input quill and clutch across the fleet.</p> <p>ECP 1081 Aft Sponson Fuel Tank: This improvement will increase combat range and endurance of the MV-22 and enable accomplishment of the Rapid Ground Refuel (RGR) mission with a single aircraft, greatly enhancing support to the Marine Air Ground Task Force during expeditionary operations. The kit will also increase Fire Suppression System FSS protection in the Aft Sponson Bay and Main Landing Gear Bays of the MV-22.</p> <p>ECP 1143.1 Nacelle Improvement (TNI): This includes engineering and modification efforts to improve the reliability and maintainability of the MV-22 Nacelles in order to increase aircraft availability and lower aircraft cost per flight hour. These efforts include but are not limited to: wiring improvement in critical areas of the nacelle, Conversion Area Harness redesign and replacement (from OSIP 028-12, ECP 1115.1), and Coanda Valve Reliability Improvements (from OSIP 021-12, ECP 1196.1).</p> <p>ECP 1107 O2N2 Concentrator Sieve Beds: A correction of the O2N2 Concentrator Sieve Beds is required to address the loss of sieve material pre-load and the resulting loss of function and potential sieve material escapements into the On Board Oxygen Generation System or On-Board Inert Gas Generating System distribution system, a potential health hazard. This change incorporates a new spring retention system, which will prevent the sieve loss and is changing the overhaul procedure for the sieve beds to prevent reuse of sieve material.</p> <p>ECP 1167 Troop Seat Retrofit Pin: Troop Seat retrofit/improvement would upgrade the troop seat from a -507 to a -509 configuration. Troop Seat Pin is a safety upgrade which will ensure that V-22 troop seats remain properly secured during high loading events enhancing occupant welfare.</p> <p>ECP 1196.1 Coanda Valve Reliability Improvement: Improve reliability of the Coanda Valve and associated wiring harness. Intent is to reduce "false positive" fault indications while addressing a number of priority failure modes. Other component improvement objectives include improved maintenance footprint, compliance with IUID requirements, and improved harness reparability.</p> <p>ECP 1214 Mast Torque Sensor System (MTSS): Four parts in the MTSS are obsolete (Application Specific Integrated Circuit (ASIC), Electronically Erasable Programmable Read-Only Memory (EEPROM), Voltage Regulator (VR), and Oscillator) and unanticipated PRBG Mast corrosion repairs are depleting component inventories. Sustainment strategy is to support production to completion of life cycle effort until 2045. Phase 1 NRE will qualify replacements parts. Phase II will execute bridge buys (ASIC and EEPROM) and cut in alternative repair parts (VR and Oscillator) into the Supply System.</p> <p>ODSSHI (Future ECP): The conceptual Osprey Drive System Safety and Health Information (ODSSHI) system utilizes high-frequency accelerometers on all five V-22 gearboxes to monitor the health of internal rotating components. This design is based off a system that was flight tested under an RDT&E effort in 2018. The final ODSSHI accelerometer configuration is intended to include three accelerometers on each of the Left Hand and Right Hand Proprotor Gearboxes (PRGBs), one accelerometer mounted on each of the Left Hand and Right Hand Tilt-Axis Gearboxes (TAGBs), and two accelerometers mounted to the Mid-wing Gearbox (MWGB). Additionally, wiring is included for future instrumentation of the input quill assembly.</p>		

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Exhibit P-3a, Individual Modification: PB 2024 Navy										Date: March 2023			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0590 / V-22 (Tilt/Rotor Acft) Osprey						Modification Number / Title: 2 / MV-22 Readiness (OSIP 028-12)			
ID Code (A=Service Ready, B=Not Service Ready) :						MDAP/MAIS Code:							
Models of Systems Affected: V-22 Series				Modification Type: Reliability, Cost-per-flight hour, Reduction in Total Ownership cost				Related RDT&E PEs: 0604262N					
Financial Plan <small>(*) Indicates the modification is being installed organically and no installation funds are required.</small>	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total	
	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	
Procurement													
1.1.1) ECP 0957 Aircraft Bus Tie Circuit Reliability Improvement - NonOrganic ⁽²⁾ <i>Installation 1 of 9</i>	271 / 0.927	31 / 0.080	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	302 / 1.007	
1.1.2) ECP 1206 APU K8/K9 Improvement - Organic ^{(*) (3)}	- / -	- / -	1 / 0.006	208 / 1.307	- / -	208 / 1.307	124 / 0.833	- / -	- / -	- / -	- / -	333 / 2.146	
1.1.3) ECP 1115.1 Conversion Area Harness (CAH) - NonOrganic ⁽⁴⁾ <i>Installation 2 of 9</i>	48 / 5.742	36 / 4.948	- / -	36 / 5.118	- / -	36 / 5.118	36 / 5.205	36 / 5.293	36 / 5.383	36 / 5.475	59 / 9.125	323 / 46.289	
1.1.4) ECP 1014.2 Drive Link/Proprotor Hub Spring Change - Organic ^(*)	120 / 28.032	60 / 14.925	60 / 15.179	40 / 10.292	- / -	40 / 10.292	30 / 7.850	- / -	- / -	- / -	- / -	310 / 76.278	
1.1.5) ECP 1075 Engine Thermo-Couple Wire Harness - NonOrganic ⁽⁵⁾ <i>Installation 3 of 9</i>	233 / 3.694	- / -	- / -	- / -	- / -	- / -	14 / 0.232	14 / 0.236	14 / 0.240	14 / 0.244	44 / 0.780	333 / 5.426	
1.1.6) ECP 0163 Gimbal Ring Joint - Organic ^{(*) (6)}	- / -	- / -	1 / 0.057	10 / 0.572	- / -	10 / 0.572	12 / 0.698	12 / 0.710	12 / 0.722	12 / 0.734	235 / 14.616	294 / 18.109	
1.1.7) ECP 1120 Manual Override Switch (MOS) - NonOrganic ⁽⁷⁾ <i>Installation 4 of 9</i>	110 / 0.202	- / -	- / -	- / -	- / -	- / -	25 / 0.109	16 / 0.071	16 / 0.072	8 / 0.037	- / -	175 / 0.491	
1.1.8) ECP 1120 PDP-2 (MOS delta Kit) - NonOrganic ⁽⁸⁾ <i>Installation 5 of 9</i>	31 / 0.082	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	31 / 0.082	
1.1.9) ECP 0962 PRGB Input Quill/Clutch Upgrade - Organic ^{(*) (9)}	- / -	- / -	- / -	- / -	- / -	- / -	- / -	45 / 18.617	45 / 18.933	45 / 19.256	198 / 84.724	333 / 141.530	
1.1.10) ECP 1081 Aft Sponson Fuel Tank - NonOrganic ⁽¹⁰⁾ <i>Installation 6 of 9</i>	48 / 5.552	- / -	12 / 1.457	20 / 3.351	- / -	20 / 3.351	18 / 3.067	12 / 2.079	12 / 2.115	12 / 2.151	103 / 15.677	237 / 35.449	
1.1.11) ECP 1081 Aft Sponson Delta Kits - NonOrganic ⁽¹¹⁾ <i>Installation 7 of 9</i>	- / -	22 / 3.564	18 / 2.966	8 / 1.340	- / -	8 / 1.340	- / -	- / -	- / -	- / -	- / -	48 / 7.870	
1.1.12) ECP 1107 O2N2 Sieve Bed Kits - Organic ^(*)	254 / 2.574	54 / 0.913	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	308 / 3.487	
1.1.13) ECP 1167 Troop Seat Pin - Organic ^{(*) (12)}	86 / 0.525	232 / 1.439	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	318 / 1.964	
1.1.14) ECP 1196.1 Coanda Valve Reliability Improvement - Organic ^{(*) (13)}	- / -	- / -	- / -	242 / 6.631	- / -	242 / 6.631	91 / 2.536	- / -	- / -	- / -	- / -	333 / 9.167	
1.1.15) ECP 1214 Mast Torque Sensor System (MTSS) - Organic ^{(*) (14)}	- / -	- / -	- / -	333 / 2.308	- / -	333 / 2.308	- / -	- / -	- / -	- / -	- / -	333 / 2.308	
1.1.16) ECP 1143.1 Nacelle Improvements (TNI) - NonOrganic ⁽¹⁵⁾ <i>Installation 8 of 9</i>	- / -	- / -	- / -	- / -	- / -	- / -	36 / 10.984	36 / 11.170	36 / 11.360	36 / 11.553	189 / 61.686	333 / 106.753	
1.1.17) ECP V221020A2 Rudder Reliability - NonOrganic ⁽¹⁶⁾ <i>Installation 9 of 9</i>	234 / 2.938	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	234 / 2.938	

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Exhibit P-3a, Individual Modification: PB 2024 Navy										Date: March 2023			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0590 / V-22 (Tilt/Rotor Acft) Osprey						Modification Number / Title: 2 / MV-22 Readiness (OSIP 028-12)			
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: V-22 Series				Modification Type: Reliability, Cost-per-flight hour, Reduction in Total Ownership cost				Related RDT&E PEs: 0604262N					
Financial Plan <small>(*) Indicates the modification is being installed organically and no installation funds are required.</small>	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
1.1.18) ODSSHI - Organic ^(*) (17)	- / -	- / -	- / -	40 / 8.000	- / -	40 / 8.000	40 / 8.136	40 / 8.274	40 / 8.415	40 / 8.558	133 / 28.939	333 / 70.322	
1.1.19) Archived ECPs - Organic ^(*)	3,723 / 108.983	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3,723 / 108.983	
1.2.1) Installation A Kit N/R - Organic ^(*) (18)	- / 91.741	- / 43.250	- / 27.600	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 162.591	
Subtotal: Procurement	- / 250.992	- / 69.119	- / 47.265	- / 38.919	- / -	- / 38.919	- / 39.650	- / 46.450	- / 47.240	- / 48.008	- / 215.547	- / 803.190	
Support													
3.1) Data	- / 1.053	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.053	
3.2) Training Equipment	- / 5.482	- / 1.700	- / 1.729	- / 1.758	- / -	- / 1.758	- / 1.788	- / 1.819	- / 1.849	- / 1.881	- / -	- / 18.006	
3.3) Support Equipment	- / 3.930	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 3.930	
3.4) ILS	- / 4.570	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 4.570	
3.5) Other Support	- / 82.259	- / 14.332	- / 15.725	- / 15.992	- / -	- / 15.992	- / 16.432	- / 16.847	- / 16.852	- / 17.972	- / 89.860	- / 286.271	
3.6) Software	- / -	- / -	- / -	- / -	- / -	- / -	- / 11.348	- / -	- / -	- / 5.256	- / -	- / 16.604	
Subtotal: Support	- / 97.294	- / 16.032	- / 17.454	- / 17.750	- / -	- / 17.750	- / 29.568	- / 18.666	- / 18.701	- / 25.109	- / 89.860	- / 330.434	
Installation													
Installation 1 of 9: ECP 0957 Aircraft Bus Tie Circuit Reliability Improvement	- / 1.809	- / 0.274	- / 0.346	- / 0.147	- / 0.000	- / 0.147	- / 0.196	- / 0.117	- / 0.095	- / 0.000	- / 0.000	- / 2.984	
Installation 2 of 9: ECP 1115.1 Conversion Area Harness (CAH)	- / -	- / 5.177	- / 5.265	- / 5.355	- / 0.000	- / 5.355	- / 2.723	- / 8.307	- / 8.448	- / 8.592	- / 40.502	- / 84.369	
Installation 3 of 9: ECP 1075 Engine Thermo-Couple Wire Harness	- / 2.620	- / 0.617	- / 0.000	- / 0.213	- / 0.000	- / 0.213	- / 0.520	- / 0.756	- / 0.294	- / 0.258	- / 2.017	- / 7.295	
Installation 4 of 9: ECP 1120 Manual Override Switch (MOS)	- / 0.622	- / 0.209	- / 0.591	- / 0.300	- / 0.000	- / 0.300	- / 0.330	- / 0.311	- / 0.202	- / 0.206	- / 0.107	- / 2.878	
Installation 5 of 9: ECP 1120 PDP-2 (MOS delta Kit)	- / 0.021	- / 0.098	- / 0.150	- / 0.153	- / 0.000	- / 0.153	- / 0.207	- / 0.158	- / -	- / -	- / 0.000	- / 0.787	
Installation 6 of 9: ECP 1081 Aft Sponson Fuel Tank	- / 1.444	- / -	- / -	- / -	- / -	- / -	- / 0.297	- / 0.503	- / 0.461	- / 0.312	- / 2.092	- / 5.109	
Installation 7 of 9: ECP 1081 Aft Sponson Delta Kits	- / -	- / -	- / 0.525	- / 0.437	- / 0.000	- / 0.437	- / 0.197	- / 0.000	- / -	- / -	- / 0.000	- / 1.159	
Installation 8 of 9: ECP 1143.1 Nacelle Improvements (TNI)	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 18.617	- / 18.934	- / 19.256	- / 122.393	- / 179.200	
Installation 9 of 9: ECP V221020A2 Rudder Reliability	- / 2.938	- / 0.190	- / 0.022	- / 0.066	- / 0.000	- / 0.066	- / 0.356	- / 0.181	- / 0.115	- / 0.117	- / 0.452	- / 4.437	
Subtotal: Installation	- / 9.454	- / 6.565	- / 6.899	- / 6.671	- / -	- / 6.671	- / 4.826	- / 28.950	- / 28.549	- / 28.741	- / 167.563	- / 288.218	
Total													
Total Cost (Procurement + Support + Installation)	357.740	91.716	71.618	63.340	0.000	63.340	74.044	94.066	94.490	101.858	472.970	1,421.842	

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Exhibit P-3a, Individual Modification: PB 2024 Navy **Date:** March 2023

Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0590 / V-22 (Tilt/Rotor Acft) Osprey	Modification Number / Title: 2 / MV-22 Readiness (OSIP 028-12)
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ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Installation 1 of 9: ECP 0957 Aircraft Bus Tie Circuit Reliability Improvement

Manufacturer Information

Manufacturer Name: Bell Boeing	Manufacturer Location: Various
Administrative Leadtime (in Months): 9	Production Leadtime (in Months): 4

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates	Jun 2022						
Delivery Dates	Oct 2022						

Installation Information

Method of Implementation: Field Mod Team:: Installation Name: ECP 0957 Aircraft Bus Tie Circuit Reliability Improvement

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	198 / 1.809	16 / 0.274	9 / 0.000	8 / 0.147	0 / 0.000	8 / 0.147	14 / 0.196	14 / 0.117	8 / 0.095	4 / 0.000	0 / 0.000	271 / 2.638
FY 2022	- / -	- / -	31 / 0.346	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	31 / 0.346
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	198 / 1.809	16 / 0.274	40 / 0.346	8 / 0.147	0 / 0.000	8 / 0.147	14 / 0.196	14 / 0.117	8 / 0.095	4 / 0.000	0 / 0.000	302 / 2.984

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	198	-	-	8	8	13	12	8	7	-	-	4	4	3	2	5	4	4	4	3	3	2	2	2	2	2	2	-	-	-	302
Out	198	-	-	8	8	5	12	8	8	7	-	4	4	3	2	5	4	4	4	3	3	2	2	2	2	2	2	-	-	-	302

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0590 / V-22 (Tilt/Rotor Acft) Osprey	Modification Number / Title: 2 / MV-22 Readiness (OSIP 028-12)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Installation 2 of 9: ECP 1115.1 Conversion Area Harness (CAH)

Manufacturer Information

Manufacturer Name: Bell Boeing	Manufacturer Location: Various
Administrative Leadtime (in Months): 5	Production Leadtime (in Months): 22

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates	Feb 2022		Feb 2024	Feb 2025	Feb 2026	Feb 2027	Feb 2028
Delivery Dates	Feb 2024		Dec 2025	Dec 2026	Dec 2027	Dec 2028	Dec 2029

Installation Information

Method of Implementation: Field Mod Team:: Installation Name: ECP 1115.1 Conversion Area Harness (CAH)

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	24 / 5.177	24 / 5.265	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	48 / 10.442
FY 2022	- / -	- / -	- / -	24 / 5.355	0 / 0.000	24 / 5.355	12 / 2.723	- / -	- / -	- / -	0 / 0.000	36 / 8.078
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	36 / 8.307	- / -	- / -	0 / 0.000	36 / 8.307
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	36 / 8.448	- / -	0 / 0.000	36 / 8.448
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	36 / 8.592	0 / 0.000	36 / 8.592
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	36 / 8.705	36 / 8.705
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	36 / 8.738	36 / 8.738
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	59 / 23.059	59 / 23.059
Total	- / -	24 / 5.177	24 / 5.265	24 / 5.355	0 / 0.000	24 / 5.355	12 / 2.723	36 / 8.307	36 / 8.448	36 / 8.592	131 / 40.502	323 / 84.369

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	12	12	12	12	-	-	-	6	6	12	-	-	12	-	12	12	12	-	12	12	12	-	12	12	12	-	131	323
Out	-	-	-	12	12	12	12	-	-	-	6	6	12	-	-	12	-	12	12	12	-	12	12	12	-	12	12	12	-	131	323

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy **Date:** March 2023

Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0590 / V-22 (Tilt/Rotor Acft) Osprey	Modification Number / Title: 2 / MV-22 Readiness (OSIP 028-12)
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ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Installation 3 of 9: ECP 1075 Engine Thermo-Couple Wire Harness

Manufacturer Information

Manufacturer Name: Bell Boeing	Manufacturer Location: Various
Administrative Leadtime (in Months): 5	Production Leadtime (in Months): 15

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates	Jan 2022			Feb 2025	Feb 2026	Feb 2027	Feb 2028
Delivery Dates	Oct 2022			Jun 2026	Jun 2027	Jun 2028	Jun 2029

Installation Information

Method of Implementation: Field Mod Team:: Installation Name: ECP 1075 Engine Thermo-Couple Wire Harness

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	148 / 2.620	20 / 0.617	10 / 0.000	8 / 0.213	0 / 0.000	8 / 0.213	18 / 0.520	22 / 0.462	7 / 0.000	- / -	0 / 0.000	233 / 4.432
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	10 / 0.294	4 / 0.000	- / -	0 / 0.000	14 / 0.294
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	10 / 0.294	4 / 0.000	0 / 0.000	14 / 0.294
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	10 / 0.258	4 / 0.000	14 / 0.258
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	14 / 0.319	14 / 0.319
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	44 / 1.698	44 / 1.698
Total	148 / 2.620	20 / 0.617	10 / 0.000	8 / 0.213	0 / 0.000	8 / 0.213	18 / 0.520	32 / 0.756	21 / 0.294	14 / 0.258	62 / 2.017	333 / 7.295

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot	
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4			
In	148	-	-	10	10	10	-	-	-	-	-	-	4	4	2	-	8	8	8	-	12	12	11	-	5	5	4	-	5	5	62	333
Out	148	-	-	10	10	10	-	-	-	-	-	-	4	4	2	-	8	8	8	-	12	12	11	-	5	5	4	-	5	5	62	333

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy **Date:** March 2023

Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0590 / V-22 (Tilt/Rotor Acft) Osprey	Modification Number / Title: 2 / MV-22 Readiness (OSIP 028-12)
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ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Installation 4 of 9: ECP 1120 Manual Override Switch (MOS)

Manufacturer Information

Manufacturer Name: Bell Boeing	Manufacturer Location: Various
Administrative Leadtime (in Months): 8	Production Leadtime (in Months): 16

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates				May 2025	May 2026	May 2027	May 2028
Delivery Dates				Sep 2026	Sep 2027	Sep 2028	Sep 2029

Installation Information

Method of Implementation: Field Mod Team:: Installation Name: ECP 1120 Manual Override Switch (MOS)

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	7 / 0.622	5 / 0.209	22 / 0.591	31 / 0.300	0 / 0.000	31 / 0.300	25 / 0.330	20 / 0.000	- / -	- / -	0 / 0.000	110 / 2.052
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	7 / 0.311	18 / 0.000	- / -	0 / 0.000	25 / 0.311
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4 / 0.202	12 / 0.000	0 / 0.000	16 / 0.202
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4 / 0.206	12 / 0.000	16 / 0.206
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	8 / 0.107	8 / 0.107
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	7 / 0.622	5 / 0.209	22 / 0.591	31 / 0.300	0 / 0.000	31 / 0.300	25 / 0.330	27 / 0.311	22 / 0.202	16 / 0.206	20 / 0.107	175 / 2.878

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	7	-	-	-	5	5	5	4	8	8	8	8	7	6	6	6	7	7	7	6	7	6	6	6	4	4	4	4	4	20	175
Out	7	-	-	-	5	5	5	4	8	8	8	8	7	6	6	6	7	7	7	6	7	6	6	6	4	4	4	4	4	20	175

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0590 / V-22 (Tilt/Rotor Acft) Osprey	Modification Number / Title: 2 / MV-22 Readiness (OSIP 028-12)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Installation 5 of 9: ECP 1120 PDP-2 (MOS delta Kit)

Manufacturer Information

Manufacturer Name: Bell Boeing	Manufacturer Location: Various
Administrative Leadtime (in Months): 0	Production Leadtime (in Months): 0

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates							
Delivery Dates							

Installation Information

Method of Implementation: Field Mod Team:: Installation Name: ECP 1120 PDP-2 (MOS delta Kit)

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	1 / 0.021	4 / 0.098	6 / 0.150	6 / 0.153	0 / 0.000	6 / 0.153	8 / 0.207	6 / 0.158	- / -	- / -	0 / 0.000	31 / 0.787
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	1 / 0.021	4 / 0.098	6 / 0.150	6 / 0.153	0 / 0.000	6 / 0.153	8 / 0.207	6 / 0.158	- / -	- / -	0 / 0.000	31 / 0.787

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	1	1	1	1	1	2	2	1	1	2	2	1	1	2	2	2	2	2	2	1	1	-	-	-	-	-	-	-	-	-	-
Out	1	1	1	1	1	2	2	1	1	2	2	1	1	2	2	2	2	2	2	1	1	-	-	-	-	-	-	-	-	-	-

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy **Date:** March 2023

Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0590 / V-22 (Tilt/Rotor Acft) Osprey	Modification Number / Title: 2 / MV-22 Readiness (OSIP 028-12)
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ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Installation 6 of 9: ECP 1081 Aft Sponson Fuel Tank

Manufacturer Information

Manufacturer Name: Bell Boeing	Manufacturer Location: Varlous
Administrative Leadtime (in Months): 3	Production Leadtime (in Months): 30

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates		Dec 2022	Dec 2023	Dec 2024	Dec 2025	Dec 2026	Dec 2027
Delivery Dates		Jun 2025	Jun 2026	Jun 2027	Jun 2028	Jun 2029	Jun 2030

Installation Information

Method of Implementation: Field Mod Team:: Installation Name: ECP 1081 Aft Sponson Fuel Tank

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	48 / 1.444	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	48 / 1.444
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	6 / 0.297	6 / 0.000	- / -	- / -	0 / 0.000	12 / 0.297
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	10 / 0.503	10 / 0.000	- / -	0 / 0.000	20 / 0.503
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	10 / 0.461	8 / 0.000	0 / 0.000	18 / 0.461
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	6 / 0.312	6 / 0.000	12 / 0.312
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	12 / 0.323	12 / 0.323
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	12 / 0.346	12 / 0.346
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	103 / 1.423	103 / 1.423
Total	48 / 1.444	- / -	- / -	- / -	- / -	- / -	6 / 0.297	16 / 0.503	20 / 0.461	14 / 0.312	133 / 2.092	237 / 5.109

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	48	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	3	3	3	5	5	5	5	5	5	5	3	3	3	133	237
Out	48	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	3	3	3	5	5	5	5	5	5	5	3	3	3	133	237

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy **Date:** March 2023

Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0590 / V-22 (Tilt/Rotor Acft) Osprey	Modification Number / Title: 2 / MV-22 Readiness (OSIP 028-12)
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ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Installation 7 of 9: ECP 1081 Aft Sponson Delta Kits

Manufacturer Information

Manufacturer Name: Bell Boeing				Manufacturer Location: Various			
Administrative Leadtime (in Months): 12				Production Leadtime (in Months): 7			
Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates	Sep 2022	Sep 2023	Sep 2024				
Delivery Dates	Apr 2023	Apr 2024	Apr 2025				

Installation Information

Method of Implementation: Field Mod Team:: Installation Name: ECP 1081 Aft Sponson Delta Kits

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	12 / 0.525	10 / 0.000	0 / 0.000	10 / 0.000	- / -	- / -	- / -	- / -	0 / 0.000	22 / 0.525
FY 2023	- / -	- / -	- / -	10 / 0.437	0 / 0.000	10 / 0.437	8 / 0.000	- / -	- / -	- / -	0 / 0.000	18 / 0.437
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	4 / 0.197	4 / 0.000	- / -	- / -	0 / 0.000	8 / 0.197
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	12 / 0.525	20 / 0.437	0 / 0.000	20 / 0.437	12 / 0.197	4 / 0.000	- / -	- / -	0 / 0.000	48 / 1.159

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot	
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4			
In	-	-	-	-	-	-	-	6	6	5	5	5	5	4	4	2	2	2	2	-	-	-	-	-	-	-	-	-	-	-	-	48
Out	-	-	-	-	-	-	-	6	6	5	5	5	5	4	4	2	2	2	2	-	-	-	-	-	-	-	-	-	-	-	-	48

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy **Date:** March 2023

Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0590 / V-22 (Tilt/Rotor Acft) Osprey	Modification Number / Title: 2 / MV-22 Readiness (OSIP 028-12)
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ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Installation 8 of 9: ECP 1143.1 Nacelle Improvements (TNI)

Manufacturer Information

Manufacturer Name: Bell Boeing	Manufacturer Location: Various
Administrative Leadtime (in Months): 3	Production Leadtime (in Months): 15

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates				Dec 2024	Dec 2025	Dec 2026	Dec 2027
Delivery Dates				Mar 2026	Mar 2027	Mar 2028	Mar 2029

Installation Information

Method of Implementation: [none specified]:: Installation Name: ECP 1143.1 Nacelle Improvements (TNI)

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	27 / 18.617	9 / 0.000	- / -	0 / 0.000	36 / 18.617
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	27 / 18.934	9 / 0.000	0 / 0.000	36 / 18.934
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	27 / 19.256	9 / 0.000	36 / 19.256
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	36 / 19.583	36 / 19.583
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	189 / 102.810	189 / 102.810
Total	- / -	- / -	- / -	- / -	- / -	- / -	- / -	27 / 18.617	36 / 18.934	36 / 19.256	234 / 122.393	333 / 179.200

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9	9	9	9	9	9	9	9	9	9	9	234	333
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9	9	9	9	9	9	9	9	9	9	9	234	333

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0590 / V-22 (Tilt/Rotor Acft) Osprey	Modification Number / Title: 2 / MV-22 Readiness (OSIP 028-12)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Installation 9 of 9: ECP V221020A2 Rudder Reliability

Manufacturer Information

Manufacturer Name: Bell Boeing	Manufacturer Location: Various
Administrative Leadtime (in Months): 0	Production Leadtime (in Months): 0

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates							
Delivery Dates							

Installation Information

Method of Implementation: Field Mod Team:: Installation Name: ECP V221020A2 Rudder Reliability

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	168 / 2.938	9 / 0.190	1 / 0.022	3 / 0.066	0 / 0.000	3 / 0.066	16 / 0.356	8 / 0.181	5 / 0.115	5 / 0.117	19 / 0.452	234 / 4.437
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	168 / 2.938	9 / 0.190	1 / 0.022	3 / 0.066	0 / 0.000	3 / 0.066	16 / 0.356	8 / 0.181	5 / 0.115	5 / 0.117	19 / 0.452	234 / 4.437

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	168	4	2	2	1	-	-	1	-	1	-	1	1	4	4	4	4	2	2	2	2	2	1	1	1	2	1	1	1	19	234
Out	168	4	2	2	1	-	-	1	-	1	-	1	1	4	4	4	4	2	2	2	2	2	1	1	1	2	1	1	1	19	234

Footnotes:

(2) ECP 0957 Aircraft Bus Tie - Aircraft previously recorded in prior year have been reduced to account for installs that were delayed due to aircraft availability. Prior installs are now phased across the FYDP to reflect updated Mod schedule. Also, installs with zero dollars associated quantities are fully funded and have a period of performance that crosses fiscal years.

(3) ECP 1206 APU K8/K9 Improvement - Only Val/Ver will be completed this year. There is a small chance we will be able to buy kits, but depends on how the install goes.

(4) ECP 1115.1 Conversion Area Harness (CAH) - Kit buy skipped in FY 2023 due to new vendor schedule delay. Installs are staggered to prevent break in mod line.

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0590 / V-22 (Tilt/Rotor Acft) Osprey	Modification Number / Title: 2 / MV-22 Readiness (OSIP 028-12)
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:
<p>(5) ECP 1075 Engine Thermo-Couple Wire Harness - Aircraft previously recorded in prior year have been reduced to account for installs that were delayed due to aircraft availability. Prior installs are now phased across the FYDP to reflect updated Mod schedule. Also, installs with zero dollars associated quantities are fully funded and have a period of performance that crosses fiscal years.</p> <p>(6) ECP 0163 Gimbal Ring Joint - Damage test required POP extension to complete therefore kit procurement is delayed until test is completed.</p> <p>(7) ECP 1120 Manual Override Switch (MOS) - Aircraft previously recorded in prior year have been reduced to account for installs that were delayed due to aircraft availability. Additionally, the prior year quantity reflects that the FY 2021 planned kit procurement was deferred. Prior year installs are now phased across the FYDP to reflect updated Mod schedule.</p> <p>(8) ECP 1120 PDP-2 (MOS delta Kit)- Line was separated out from MOS due to having a different MOD schedule.</p> <p>(9) ECP 0962 PRGB Input Quill/Clutch Upgrade - The effort slipped due to the change in scope as a result of the Hard Clutch Engagement (HCE) issues. HCE is a 1-D Serious Safety risk to the V-22 fleet. The PRGB Input Quill / Clutch Step 1 effort to develop the new improved design needs to be completed prior to the Step 2 kits and spares implementation to the fleet.</p> <p>(10) ECP 1081 Aft Sponson Fuel Tank - Aft Sponson and Kit procurement/install required a new Delivery Order, therefore, kit procurement was delayed. However, Bell Boeing also went out on risk and procured 56 Aft Sponson kits which results in a decreased lead time on kits. Current lead time on Aft Sponson kits is 30 months.</p> <p>(11) ECP 1081 Aft Sponson Delta Kits - are being procured to bridge the gap in the modification line. Also, installs with zero dollars associated are fully funded and have a period of performance that crosses fiscal years.</p> <p>(12) ECP 1167 Troop Seat Pin - Funding was available in FY 2022 to procure the remaining kits for Troop Seat Pin, therefore we procured the remaining kits which resulted in additional funding being made available for FY 2023 requirements that were unfunded.</p> <p>(13) ECP 1196.1 Coanda Valve Reliability Improvement - Delays in RDT and E3 testing has delayed the vendor's ability to produce harnesses and valves required for flight test. Kit procurement cannot be initiated until we have a tested viable valve and harness for implementation. Kit procurement starts in FY 2024.</p> <p>(14) ECP 1214 Mast Torque Sensor System (MTSS) - Ob date slipped from FY23 to FY24 (Dec-23) based on updated schedule received in 8-pager from Bell on 24-Aug-22. Procurement strategy could be changing from one year to three year procurement. Follow up discussions required. Kit procurement starts in FY 2024.</p> <p>(15) ECP 1143.1 Nacelle Improvements - Tailored Nacelle Improvement (TNI) is part of a new strategy for USMC to lower cost of the effort while still upgrading critical areas of the nacelle.</p> <p>(16) ECP V221020A2 Rudder Reliability - Installs were delayed due to aircraft availability. Prior installs are now phased across the FYDP to reflect updated Mod schedule. Also, installs with zero dollars associated quantities are fully funded and have a period of performance that crosses fiscal years.</p> <p>(17) ODSSHI - Kit procurement starts in FY 2024.</p> <p>(18) Installation A Kit N/R - Congressional Add will be used for TNI NRE. \$1.818M - was slotted for CFG GCU Upgrade NRE, but that effort is now canceled.</p>		

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0590 / V-22 (Tilt/Rotor Acft) Osprey	Modification Number / Title: 3 / MV-22 Common Configuration (OSIP 011-17)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	651.674	43.626	64.292	62.181	0.000	62.181	89.539	88.580	90.086	85.890	145.587	1,321.455
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	651.674	43.626	64.292	62.181	0.000	62.181	89.539	88.580	90.086	85.890	145.587	1,321.455
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	651.674	43.626	64.292	62.181	0.000	62.181	89.539	88.580	90.086	85.890	145.587	1,321.455

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

OSIP 011-17: In FY23, the USMC realigned Common Configuration-Readiness and Modernization (CC-RAM) budget to other programs, which significantly decreases the OSIP 011-17 budget. The program has been streamlined to ensure alignment with Commandant of the Marine Corps Force Design 2030 (FD2030) objectives. This effort will adhere to a block upgrade construct and provide the iterative baseline capabilities to posture the MV-22 for success in the increasingly dynamic warfighter environment. The configuration modification line(s) will focus on ECPs aimed at improving readiness, achieving common configuration, and reducing Life Cycle Costs.

Common Configuration is a modification which will upgrade 101 Block B MV-22 aircraft to a common production configuration in support of improved readiness, achieving common configuration, and reducing Life Cycle Cost. This modification will allow for the reduction of future Operating and Support costs by reducing National Stock Numbers in the supply system, the reduction of training and maintenance tasks in the Interactive Electronic Tech Manuals (IETMs), and the reduction of NRE retrofit costs due to multiple aircraft configurations on future engineering changes. This will include funding for ECPs that impact safety, reliability, and cost.

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0590 / V-22 (Tilt/Rotor Acft) Osprey	Modification Number / Title: 3 / MV-22 Common Configuration (OSIP 011-17)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Models of Systems Affected: V-22 Series	Modification Type: Safety, Reliability, Increased Service Life, Improved Mission Capability	Related RDT&E PEs: 0604262N
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Financial Plan <small>(* Indicates the modification is being installed organically and no installation funds are required.)</small>	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Procurement												
1.1.1) ECP 1133 Common Configuration - Organic ^(*) (19)	25 / 412.197	- / 33.572	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	25 / 445.769
1.1.2) BLK 25 Upgrade - Organic ^(*) (20)	- / -	- / -	- / -	18 / 51.867	- / -	18 / 51.867	20 / 58.610	20 / 59.606	20 / 60.620	12 / 36.990	- / -	90 / 267.693
1.1.3) BLK 30 Upgrade - Organic ^(*)	- / -	- / -	- / -	- / -	- / -	- / -	12 / 18.000	12 / 18.306	12 / 18.617	24 / 37.867	40 / 63.112	100 / 155.902
1.2.1) Installation A Kit N/R - Organic ^(*) (21)	- / 199.795	- / -	- / 49.678	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 249.473
2.1.1) Archived B-Kits - Organic ^(*)	136 / 7.016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	136 / 7.016
Subtotal: Procurement	- / 619.008	- / 33.572	- / 49.678	- / 51.867	- / -	- / 51.867	- / 76.610	- / 77.912	- / 79.237	- / 74.857	- / 63.112	- / 1,125.853
Support												
3.1) Support Equipment ⁽²²⁾	- / 8.737	- / -	- / 4.389	- / -	- / -	- / -	- / 2.440	- / -	- / -	- / -	- / -	- / 15.566
3.2) Other Support ⁽²³⁾	- / 23.929	- / 10.054	- / 10.225	- / 10.314	- / -	- / 10.314	- / 10.489	- / 10.668	- / 10.849	- / 11.033	- / 82.475	- / 180.036
Subtotal: Support	- / 32.666	- / 10.054	- / 14.614	- / 10.314	- / -	- / 10.314	- / 12.929	- / 10.668	- / 10.849	- / 11.033	- / 82.475	- / 195.602
Installation												
Subtotal: Installation	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total												
Total Cost (Procurement + Support + Installation)	651.674	43.626	64.292	62.181	0.000	62.181	89.539	88.580	90.086	85.890	145.587	1,321.455

Footnotes:
⁽¹⁹⁾ ECP 1133 Common Configuration - FY 2022 funding paid for Over and Above needed to complete prior inducted A/C.
⁽²⁰⁾ BLK 25 Upgrade - Kit procurement adjusted to align with MV-22 Inventory Management (MVIM) Inductions which have slid due to Input Quill Assembly (IQA) limit exceedances on the inducting population. Kit procurement starts in FY 2024.
⁽²¹⁾ Installation A Kit N/R - NRE for Block 25 (BLK 25) Risk Reduction installations on up to ten aircraft of varied configurations to solidify the technical directive ahead of validation and verification was adjusted to align with MV-22 Inventory Management (MVIM) Inductions. The BLK 25 RR installations cannot occur without aircraft inducted into MVIM.
⁽²²⁾ Support Equipment - in FY23 support site stand-up for CCCR modifications. Lakehurst award 09/30/2023
⁽²³⁾ Other Support - In FY23 support is for MOD field labor increasing as well FRC support. 1.FRC East BLK25 Labor \$2,028,354.68 - awarded 2.FRC East BLK30 Labor \$682,866.29 - awarded 3.FY23 CCCR APSD Labor \$100,000.00 - awarded 4.FY23 CCCR APSD Labor \$50,000.00 - awarded 5.CSS Support \$1.369M - April with NRE Award 6. PIF Labor \$ 5.996M - April with NRE award

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0590 / V-22 (Tilt/Rotor Acft) Osprey	Modification Number / Title: 4 / MV-22 Avionics Improvements (OSIP 009-19)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	176.486	87.383	71.713	54.932	0.000	54.932	57.574	59.949	81.059	107.018	1,106.222	1,802.336
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	176.486	87.383	71.713	54.932	0.000	54.932	57.574	59.949	81.059	107.018	1,106.222	1,802.336
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	176.486	87.383	71.713	54.932	0.000	54.932	57.574	59.949	81.059	107.018	1,106.222	1,802.336

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

OSIP 009-19 Incorporates changes to the MV-22 avionics systems, working in concert with the Technical Insertion (TI) schedule to reduce cost, improve coordination, yield common configurations, and improve Ready Based Aircraft rates. Improvements to safety of flight, maintenance, obsolescence (Diminishing Manufacturing Sources/Material Shortages), and readiness degrader items will yield a more interoperable and survivable MV-22 force to sustain warfighter capability in support of worldwide operations. Current and future ECPs provide a more robust performance in navigation, weapons, avionics, survivability, maneuverability, maintainability, and mission deployment of the MV-22 platform.

AVIONICS: Avionics modifications to the MV-22 will improve display reliability, eliminate communication security issues and alleviate parts obsolescence/vendor problems. Changes to the V-22 avionics will include: Display System upgrade, Cockpit ICS modification, upgraded Mission Computer, updated Data Transfer Module, Control Display Unit (CDU)/Engine Instrument Caution Advisory System upgrade (EICAS), CDU Keyboard upgrade, and Avionics Interface Units upgrades. As well as Mission System Upgrade and Midwing Processing Unit obsolescence replacement. Software modifications are controlled by the functional requirements document (FRD) and introduced to the fleet for release every two years, or as needed based on emerging fleet requirements.

RELIABILITY & MAINTAINABILITY FIXES: Includes Corrective Action Plans to make the aircraft compliant with operation document requirements. Communication, Navigation, and Surveillance Modifications to the V-22 will facilitate Federal Aviation Administration and International Civil Aviation Organization standards compliance.

Current ECPs:

ECP 1152 Advanced Multifunction Display (AMFD): Upgrades cockpit flight displays providing: 30 lbs. weight savings, less cooling and power requirements, significant obsolescence avoided, and greater pilot display capabilities.

ECP 0873R4A1 Mission Computer Obsolescence Incentive (MCOI) Retrofit for BLK C: MCOI replaces several components and allows planned capabilities to operate without memory processing power or memory storage.

ECP 1067 Traffic Collision Avoidance System (TCAS) (ECP migrated from OSIP 022-01): Procurement of kits and installations of the Honeywell MILACAS-XR TCAS into MCOI-equipped MV-22 Block B and C aircraft. MILACAS-XR is identical to the TCAS system already in use aboard the CV-22, and will advise MV-22 pilots of airborne traffic threats, as well as resolution advisories of what corrective action to take to avoid colliding with the threat aircraft. Delta kits were procured to cover a gap in the modification line.

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0590 / V-22 (Tilt/Rotor Acft) Osprey	Modification Number / Title: 4 / MV-22 Avionics Improvements (OSIP 009-19)
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:
<p>ECP 1155 MV-22 Integrated Aircraft Survivability Equipment (IASE) (Configuration A, B, C, and D): Configuration A is the legacy production-line configuration of separately installed (federated) electronic warfare (EW) systems: AAR-47 IR Missile Warner, APR-39A or C Radar Missile Warner, and ALE-47 Countermeasures dispensing system. Configuration B will combine the separate EW systems into one integrated suite that provides upgraded radar warning through the APR-39C and missile warning capability through the Advanced Threat Warner (ATW) sensors; upgrades the ALE-47 processor to a Power PC configuration due to obsolescence; and adds inexhaustible laser countermeasures through the AAQ-24 Directed Infrared Countermeasures. Configuration C advances the EW suite to upgrade the radar warning capability to the APR-39D due to obsolescence of the APR-39C, changing the associated hardware, software, and wiring for that system. Department of Navy Large Aircraft Infrared Countermeasure Processor Upgrade (DLPU) / Configuration D upgrades and replaces the Infrared Countermeasures Processor due to obsolescence and changes the remaining suite, to include ATW Sensors, Control Unit, and Guardian Laser Turret Assemblies.</p> <p>Degraded Visual Environment/Helmet Mounted Display (DVE/HMD) Program (Future ECP): This program provides MV-22 pilots with macro and micro hover drift cues and hazard identification, which will improve safety during en-route operations, approaches to landings, and Reduced Visibility Landings (RVL). Upgrades Integrated Processor, Ethernet Switch, HMD, and Helmet Tracking System. (Deputy Commandant for Aviation priority due to being a safety improvement.)</p> <p>Ethernet Expansion Device (EED): The Ethernet Expansion Device will extend the Ethernet network in the MV-22 aircraft so that future systems can easily connect to the Ethernet network. EED supports the PDS, DVE, and HMD efforts.</p> <p>Platform Data Services (PDS) (Future ECP): PDS will interface available onboard V-22 display control and status and threat and Mission Planning data (including Digital Terrain Elevation Data and Table Formatted Aeronautical Data Set- Obstacles) via the EED high speed network switch to the DVE/HMD system. This will provide pilots with synthetic vision to fly approaches in RVL environments, greatly reducing risk.</p> <p>Vibration Structural Life & Engine Diagnostic (VSLED) - Monitors aircraft loads/vibrations and reports to a maintenance computer at the end of a flight to digitally track airframe life expectancy and report any vibration issues. The new version of the box was developed under the Midwing Avionics Obsolescence (MAO) program that included updates to the Fuel Management Unit (FMU) and Drive System Interface Unit (DSIU).</p> <p>Gen6 Radio: ARC 210 Gen6 next generation software-defined airborne communication system is now authorized for delivery to Five Eye and NATO nations. The ARC 210 Gen6 features the latest anti-jam technology, satellite capability (MUOS), embedded high-power output, and the latest modernized cryptology for enhanced situational awareness and seamless communications in challenging/contested environments. The ARC-210 Gen6 integrates a next-generation networking capability, and variants can be reprogrammed and customized as needed without sacrificing performance or security. It also expands its market-leading frequency range from 30 MHz (Tactical VHF) to 1850 MHz (L-band).</p> <p>Common Electronic Standby Indicator (CESI): is a federated, stand-alone SFI that replaces the current SFI on all MV-22 aircraft due to end of life issues.</p> <p>Forward Looking Infrared / Enhanced Local Area Processing (FLIR ELAP): Enhanced Local Area Processing (ELAP) provides improved video quality to the existing AN/AAQ-27A Forward Looking Infrared (FLIR) system currently employed on the MV-22 and CV-22 Tilt rotor Aircraft. It improves hands-off recognition range of obstacles and hazards such as towers and wires. ELAP improves the overall situational awareness for the pilots. The upgraded ELAP Circuit Card Assembly (CCA) resides in the Systems Electronics Unit (SEU).</p> <p>Digital Interoperability/Meshed Network Manager (MNM) MV-22B Unique Integration: This will provide interoperability between multiple aircraft and ground users to digitally communicate through different waveforms, enhanced command and control, increases situational awareness, enables digital communications and tracking for Marines in the cabin and cockpit, and provides information management of multiple data sources. Provides situational awareness, enhanced command and control, remote and operation of payloads, and tracking of Marines and cargo. It also allows for collaboration and cooperation in a Joint environment. (Commandant Marine Corps priority for Force Design and Expeditionary Advanced Base Operations concepts.)</p> <p>HF Radio: In order to enhance open water communications, independent self-deployment capability, and the operational flexibility of the MV-22 Osprey, the United States Marines desires a Beyond Line of Sight (BLOS) communication capability compatible with international air traffic control authorities and certain communication networks. This effort is required to complete retrofit incorporation of the BLOS Communications Suite to include both wiring and hardware. This effort also requires a formal release of completed documents and drawings to the retrofit community which will include updating the logistic</p>		

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0590 / V-22 (Tilt/Rotor Acft) Osprey	Modification Number / Title: 4 / MV-22 Avionics Improvements (OSIP 009-19)
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:
<p>support analysis (LSA) databases and associated support processes, formally releasing the Integrated Electronic Technical Manuals (IETMs) updates to reflect incorporation of the BLOS system, release of the Service Instruction, and submission of an updated Design Change Notice (DCN).</p> <p>Joint Avionics Reconfigurable Virtual Information System (JARVIS): Upgraded Open System Architecture / Cyber Security supports the additional requirements for the JARVIS single board computer module. This program replaces the existing Integrated Avionics Processor (IAP) due to obsolescence, cybersecurity vulnerabilities, and diminishing manufacturing sources. JARVIS incorporates software reconfigurability and meets cyber-security requirements. JARVIS will re-host V-22 Application System Software, provide display processing for the cockpit Multi-Function Displays, and provide digital map functionality.</p> <p>ECP 1099 Flight Control System (FCS): Flight Control System replaces obsolescent FCCs with upgraded hardware with capability for future improved flight control laws. This critical effort is integral to operational readiness and safety due to limited replacement component availability for current hardware and will have the processing capability to handle additional flight control laws to improve aircraft handling qualities.</p> <p>Mobile User Objective System (MUOS): Improves satellite communications. Legacy SATCOM satellites are degrading at a rate which will render them unusable at a future date. This effort is will incorporate the upgraded HPA/LNA, Ethernet switch wiring to the Generation 6 radio, and MUOS software for CMV/MV/CV to enable communications on the MUOS MIL SATCOM Network to include the Tactical Secure Voice (TSV) 2.1 encryption and Multi-media/Data and Video capabilities.</p> <p>Weather Radar: The upgrade to the weather radar system will replace the obsolete system in MV-22, CMV-22, and FMS aircraft through retrofit kits and installs. Airborne weather radar is an essential tool for pilots to assess the intensity of convective weather ahead of the aircraft. It enables the strategic and tactical planning of a safe flight trajectory while avoiding en-route weather. As weather changes, airborne weather radar provides real time updates to maximize flight efficiency and avoid unsafe conditions.</p> <p>Training Equipment:</p> <p>Aviation Maintenance Trainer (AMT): Improves training and maintainer proficiency by incorporating modifications to the AMT to reflect most current Block aircraft configuration as required by MCO 3710.6.</p> <p>Full Flight Simulator (FFS): Improves training and pilot proficiency by incorporating modifications to FFS #1-3 to reflect most current aircraft configuration as required by MCO 3710.6.</p> <p>Flight Training Device (FTD): Improves training and pilot proficiency by incorporating modifications to FTD #1 to reflect most current aircraft configuration as required by MCO 3710.6.</p> <p>Containerized Flight Training Device (CFTD): Improves training and pilot proficiency by incorporating modifications to the CFTD #1-14 to reflect most current aircraft configuration as required by MCO 3710.6.</p> <p>MCO 3710.6 required Aircraft Retrofit Concurrency Training: Update Integrated Training System database and comprehensive cataloging content with aircraft retrofit change data funded under this budget. Updates will enable detailed training analysis of all aircraft changes to identify Basic Instructor Training Course, Fast Response Group, Academic Training Material and training devices update requirements along with cost and labor estimates for the required concurrency changes to the training medium. Update existing warfighter Academic Training Material to capture aircraft system changes funded under this budget. Updates will assure concurrency of the training material used in new accession Navy and Marine Corps V-22 pilot, enlisted aircrew and maintenance personnel training as a precursor to their follow on assignment to warfighter commands. Update existing warfighter Basic Instructor Training Course to capture aircraft system changes funded under this budget. Update and produce Marine Corps and Navy training material to provide Fast Response Group direct warfighter unit training on changes to the aircraft as a result of retrofit actions funded under this budget. Update the V-22 Aircraft Aeronautical Math Model to reflect aircraft flight performance changes resulting from aircraft system changes funded by this budget.</p>		

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Exhibit P-3a, Individual Modification: PB 2024 Navy										Date: March 2023			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0590 / V-22 (Tilt/Rotor Acft) Osprey					Modification Number / Title: 4 / MV-22 Avionics Improvements (OSIP 009-19)			
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: V-22 Series				Modification Type: Safety, Reliability, Increased Service Life, Improved Mission Capability				Related RDT&E PEs: 0604262N					
Financial Plan <small>(*) Indicates the modification is being installed organically and no installation funds are required.</small>	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total	
	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	
Procurement													
1.1.1) ECP 1152 Advanced Multifunction Display (AMFD) - Organic ^(*)	48 / 0.325	- / -	- / -	48 / 0.342	- / -	48 / 0.342	48 / 0.348	48 / 0.353	48 / 0.359	48 / 0.366	10 / 0.077	298 / 2.170	
1.1.2) ECP 0873R4A1 MCOI BLK C - NonOrganic <i>Installation 1 of 8</i>	48 / 6.172	11 / 1.958	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	59 / 8.130	
1.1.3) ECP 1067 Traffic Collision Avoidance System (TCAS) - NonOrganic ⁽²⁴⁾ <i>Installation 2 of 8</i>	79 / 6.251	32 / 4.719	24 / 4.337	23 / 4.227	- / -	23 / 4.227	13 / 2.430	- / -	- / -	- / -	- / -	171 / 21.964	
1.1.4) ECP 1067 (TCAS) Delta Kits - NonOrganic ⁽²⁵⁾ <i>Installation 3 of 8</i>	- / -	22 / 1.138	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	22 / 1.138	
1.1.5) ECP 1155 (IASE) DV2 Config A-C - NonOrganic ⁽²⁶⁾ <i>Installation 4 of 8</i>	84 / 59.714	- / -	- / -	24 / 18.468	- / -	24 / 18.468	24 / 18.782	24 / 19.102	24 / 19.426	24 / 19.756	69 / 57.765	273 / 213.013	
1.1.6) ECP 1155 (IASE) DV2 Config B-C - NonOrganic <i>Installation 5 of 8</i>	72 / 6.383	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	72 / 6.383	
1.1.7) ECP 1155 (IASE) DLPU Config D - Organic ^(*)	- / -	- / -	45 / 0.675	45 / 0.686	- / -	45 / 0.686	24 / 0.373	24 / 0.378	24 / 0.385	24 / 0.261	138 / 2.290	324 / 5.048	
1.1.8) Degraded Visual Environment/Helmet Mounted Display (DVE/HMD) - NonOrganic <i>Installation 6 of 8</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	14 / 0.522	36 / 1.364	36 / 1.387	247 / 9.518	333 / 12.791	
1.1.9) Platform Data Services (PDS) - NonOrganic <i>Installation 7 of 8</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	14 / 1.782	36 / 4.660	36 / 4.739	247 / 33.068	333 / 44.249	
1.1.10) Vibration Structural Life & Engine Diagnostic (VSLED) - Organic ^(*)	- / -	- / -	200 / 16.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	200 / 16.000	
1.1.11) Gen 6 Radio - Organic ^(*)	- / -	238 / 21.420	95 / 8.550	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	333 / 29.970	
1.1.12) Common Electronic Standby Indicator (CESI) - Organic ^(*) <small>(27)</small>	- / -	- / -	- / -	24 / 0.360	- / -	24 / 0.360	36 / 0.549	36 / 0.559	36 / 0.568	36 / 0.578	165 / 2.693	333 / 5.307	
1.1.13) Forward Looking Infrared / Enhanced Local Area Processing (FLIR ELAP) - Organic ^(*)	- / -	296 / 2.561	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	296 / 2.561	
1.1.14) Meshed Network Manager (MNM) - NonOrganic <i>Installation 8 of 8</i>	- / -	18 / 7.388	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	18 / 7.388	
1.1.15) HF Radio - Organic ^(*)	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	60 / 2.769	273 / 22.353	333 / 25.122	
1.1.16) Archived ECPs - Organic ^(*)	100 / 2.405	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	100 / 2.405	
1.2.1) Installation A Kit N/R - Organic ^(*)	- / 3.150	- / 15.124	- / 8.689	- / -	- / -	- / -	- / -	- / -	- / 2.385	- / -	- / -	- / 29.348	
2.1.1) Joint Avionics Reconfigurable Virtual Information System (JARVIS) - Organic ^(*)	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	12 / 2.516	12 / 2.559	309 / 67.008	333 / 72.083	

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0590 / V-22 (Tilt/Rotor Acft) Osprey	Modification Number / Title: 4 / MV-22 Avionics Improvements (OSIP 009-19)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Models of Systems Affected: V-22 Series	Modification Type: Safety, Reliability, Increased Service Life, Improved Mission Capability	Related RDT&E PEs: 0604262N
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Financial Plan <small>(*) Indicates the modification is being installed organically and no installation funds are required.</small>	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
2.1.2) ECP 1152 Advanced Multifunction Display (AMFD) - Organic ^(*)	48 / 5.903	- / -	- / -	48 / 6.209	- / -	48 / 6.209	48 / 6.315	48 / 6.422	48 / 6.531	48 / 6.642	10 / 1.407	298 / 39.429
2.1.3) ECP 1099 Flight Control System (FCS) - Organic ^(*)	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4 / 5.690	4 / 5.787	325 / 478.165	333 / 489.642
2.1.4) Common Electronic Standby Indicator (CESI) - Organic ^(*) <small>(28)</small>	- / -	- / -	- / -	24 / 0.955	- / -	24 / 0.955	36 / 1.457	36 / 1.482	36 / 1.507	36 / 1.532	165 / 7.143	333 / 14.076
2.1.5) Degraded Visual Environment/Helmet Mounted Display (DVE/HMD) - Organic ^(*)	- / -	- / -	- / -	- / -	- / -	- / -	- / -	14 / 1.595	36 / 4.171	36 / 4.242	247 / 29.600	333 / 39.608
2.1.6) Platform Data Services (PDS) - Organic ^(*)	- / -	- / -	- / -	- / -	- / -	- / -	- / -	14 / 3.615	36 / 9.454	36 / 9.615	247 / 67.089	333 / 89.773
2.1.7) Ethernet Expansion Device (EED) - Organic ^(*)	- / -	- / -	- / -	- / -	- / -	- / -	- / -	14 / 0.442	36 / 1.155	36 / 1.175	247 / 8.199	333 / 10.971
2.1.8) Archived ECPs (B-kit) - Organic ^(*)	327 / 19.502	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	327 / 19.502
Subtotal: Procurement	- / 109.805	- / 54.308	- / 38.251	- / 31.247	- / -	- / 31.247	- / 30.254	- / 36.252	- / 60.171	- / 61.408	- / 786.375	- / 1,208.071
Support												
3.1) Other Support	- / 18.919	- / 9.407	- / 9.657	- / 9.923	- / -	- / 9.923	- / 11.209	- / 11.398	- / 11.590	- / 11.785	- / 68.796	- / 162.684
3.2) Training Equipment ⁽²⁹⁾	- / 22.167	- / 2.742	- / 4.409	- / 6.051	- / -	- / 6.051	- / -	- / 6.409	- / -	- / 7.590	- / 11.700	- / 61.068
3.3) Support Equipment	- / 0.661	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.661
3.4) Software Modifications	- / 14.079	- / 7.631	- / 8.056	- / -	- / -	- / -	- / 6.019	- / -	- / -	- / 9.348	- / 2.600	- / 47.733
3.5) DATA	- / 1.335	- / 0.229	- / 0.233	- / 0.237	- / -	- / 0.237	- / 0.341	- / 0.346	- / 0.352	- / 0.356	- / 1.224	- / 4.653
Subtotal: Support	- / 57.161	- / 20.009	- / 22.355	- / 16.211	- / -	- / 16.211	- / 17.569	- / 18.153	- / 11.942	- / 29.079	- / 84.320	- / 276.799
Installation												
Installation 1 of 8: ECP 0873R4A1 MCOI BLK C	- / 5.040	- / 5.287	- / 3.010	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 13.337
Installation 2 of 8: ECP 1067 Traffic Collision Avoidance System (TCAS)	- / 1.697	- / 0.757	- / 1.090	- / -	- / -	- / -	- / 2.122	- / 1.619	- / 1.578	- / 0.907	- / 0.000	- / 9.770
Installation 3 of 8: ECP 1067 (TCAS) Delta Kits	- / -	- / -	- / -	- / 1.807	- / 0.000	- / 1.807	- / 0.000	- / -	- / -	- / -	- / 0.000	- / 1.807
Installation 4 of 8: ECP 1155 (IASE) DV2 Config A-C	- / -	- / 3.449	- / 6.027	- / 4.670	- / 0.000	- / 4.670	- / 6.531	- / 3.925	- / 7.368	- / 7.494	- / 47.125	- / 86.589
Installation 5 of 8: ECP 1155 (IASE) DV2 Config B-C	- / 2.783	- / 0.883	- / 0.980	- / 0.997	- / 0.000	- / 0.997	- / 1.098	- / -	- / -	- / -	- / 0.000	- / 6.741
Installation 6 of 8: Degraded Visual Environment/Helmet Mounted Display (DVE/HMD)	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.642	- / 14.875	- / 15.517
Installation 7 of 8: Platform Data Services (PDS)	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 7.488	- / 173.527	- / 181.015
Installation 8 of 8: Meshed Network Manager (MNM)	- / -	- / 2.690	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 2.690
Subtotal: Installation	- / 9.520	- / 13.066	- / 11.107	- / 7.474	- / -	- / 7.474	- / 9.751	- / 5.544	- / 8.946	- / 16.531	- / 235.527	- / 317.466

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0590 / V-22 (Tilt/Rotor Acft) Osprey	Modification Number / Title: 4 / MV-22 Avionics Improvements (OSIP 009-19)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Models of Systems Affected: V-22 Series	Modification Type: Safety, Reliability, Increased Service Life, Improved Mission Capability	Related RDT&E PEs: 0604262N
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Financial Plan <small>(*) Indicates the modification is being installed organically and no installation funds are required.</small>	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>

Total												
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Total Cost (Procurement + Support + Installation)	176.486	87.383	71.713	54.932	0.000	54.932	57.574	59.949	81.059	107.018	1,106.222	1,802.336
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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0590 / V-22 (Tilt/Rotor Acft) Osprey	Modification Number / Title: 4 / MV-22 Avionics Improvements (OSIP 009-19)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Installation 1 of 8: ECP 0873R4A1 MCOI BLK C

Manufacturer Information

Manufacturer Name: Prototype Integration Facility	Manufacturer Location: Redstone Arsenal, Alabama
Administrative Leadtime (in Months): 6	Production Leadtime (in Months): 7

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates	Mar 2022						
Delivery Dates	Oct 2022						

Installation Information

Method of Implementation: Field Mod Team:: Installation Name: ECP 0873R4A1 MCOI BLK C

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	24 / 5.040	24 / 5.287	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	48 / 10.327
FY 2022	- / -	- / -	11 / 3.010	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	11 / 3.010
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	24 / 5.040	24 / 5.287	11 / 3.010	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	59 / 13.337

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot	
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4			
In	24	6	6	6	6	6	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	59
Out	24	6	6	6	6	6	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	59

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0590 / V-22 (Tilt/Rotor Acft) Osprey	Modification Number / Title: 4 / MV-22 Avionics Improvements (OSIP 009-19)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Installation 2 of 8: ECP 1067 Traffic Collision Avoidance System (TCAS)

Manufacturer Information

Manufacturer Name: Bell Boeing	Manufacturer Location: Various
Administrative Leadtime (in Months): 6	Production Leadtime (in Months): 34

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates	Mar 2022	Mar 2023	Mar 2024	Mar 2025			
Delivery Dates	Jan 2025	Jan 2026	Jan 2027	Jan 2028			

Installation Information

Method of Implementation: Field Mod Team:: Installation Name: ECP 1067 Traffic Collision Avoidance System (TCAS)

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	50 / 1.697	12 / 0.757	17 / 1.090	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	79 / 3.544
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	24 / 2.122	8 / 0.000	- / -	- / -	0 / 0.000	32 / 2.122
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	18 / 1.619	6 / 0.000	- / -	0 / 0.000	24 / 1.619
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	18 / 1.578	5 / 0.000	0 / 0.000	23 / 1.578
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	10 / 0.907	3 / 0.000	13 / 0.907
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	50 / 1.697	12 / 0.757	17 / 1.090	- / -	- / -	- / -	24 / 2.122	26 / 1.619	24 / 1.578	15 / 0.907	3 / 0.000	171 / 9.770

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	50	3	3	3	3	5	4	4	4	-	-	-	-	-	8	8	8	8	6	6	6	6	6	6	6	5	4	3	3	3	171
Out	50	3	3	3	3	5	4	4	4	-	-	-	-	-	8	8	8	8	6	6	6	6	6	6	6	5	4	3	3	3	171

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0590 / V-22 (Tilt/Rotor Acft) Osprey	Modification Number / Title: 4 / MV-22 Avionics Improvements (OSIP 009-19)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Installation 3 of 8: ECP 1067 (TCAS) Delta Kits

Manufacturer Information

Manufacturer Name: Bell Boeing	Manufacturer Location: Various
Administrative Leadtime (in Months): 6	Production Leadtime (in Months): 22

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates	Mar 2022						
Delivery Dates	Jan 2024						

Installation Information

Method of Implementation: Field Mod Team:: Installation Name: ECP 1067 (TCAS) Delta Kits

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	17 / 1.807	0 / 0.000	17 / 1.807	5 / 0.000	- / -	- / -	- / -	0 / 0.000	22 / 1.807
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	17 / 1.807	0 / 0.000	17 / 1.807	5 / 0.000	- / -	- / -	- / -	0 / 0.000	22 / 1.807

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot					
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4							
In	-	-	-	-	-	-	-	-	-	-	6	6	5	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	22
Out	-	-	-	-	-	-	-	-	-	-	6	6	5	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	22

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0590 / V-22 (Tilt/Rotor Acft) Osprey	Modification Number / Title: 4 / MV-22 Avionics Improvements (OSIP 009-19)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Installation 4 of 8: ECP 1155 (IASE) DV2 Config A-C

Manufacturer Information

Manufacturer Name: Bell Boeing	Manufacturer Location: Various
Administrative Leadtime (in Months): 3	Production Leadtime (in Months): 36

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates			Dec 2023	Dec 2024	Dec 2025	Dec 2026	Dec 2027
Delivery Dates			Dec 2026	Dec 2027	Dec 2028	Dec 2029	Dec 2030

Installation Information

Method of Implementation: Field Mod Team:: Installation Name: ECP 1155 (IASE) DV2 Config A-C

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	12 / 3.449	21 / 6.027	16 / 4.670	0 / 0.000	16 / 4.670	22 / 6.531	13 / 3.925	- / -	- / -	0 / 0.000	84 / 24.602
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	24 / 7.368	- / -	0 / 0.000	24 / 7.368
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	24 / 7.494	0 / 0.000	24 / 7.494
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	24 / 7.621	24 / 7.621
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	24 / 7.751	24 / 7.751
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	24 / 7.882	24 / 7.882
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	69 / 23.871	69 / 23.871
Total	- / -	12 / 3.449	21 / 6.027	16 / 4.670	0 / 0.000	16 / 4.670	22 / 6.531	13 / 3.925	24 / 7.368	24 / 7.494	141 / 47.125	273 / 86.589

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	3	3	3	3	6	5	5	5	4	4	4	4	6	6	5	5	4	3	3	3	6	6	6	6	6	6	6	6	141	273
Out	-	3	3	3	3	6	5	5	5	4	4	4	4	6	6	5	5	4	3	3	3	6	6	6	6	6	6	6	6	141	273

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0590 / V-22 (Tilt/Rotor Acft) Osprey	Modification Number / Title: 4 / MV-22 Avionics Improvements (OSIP 009-19)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Installation 5 of 8: ECP 1155 (IASE) DV2 Config B-C

Manufacturer Information

Manufacturer Name: Bell Boeing	Manufacturer Location: Various
Administrative Leadtime (in Months): 5	Production Leadtime (in Months): 23

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates							
Delivery Dates							

Installation Information

Method of Implementation: Field Mod Team:: Installation Name: ECP 1155 (IASE) DV2 Config B-C

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	24 / 2.783	11 / 0.883	12 / 0.980	12 / 0.997	0 / 0.000	12 / 0.997	13 / 1.098	- / -	- / -	- / -	0 / 0.000	72 / 6.741
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	24 / 2.783	11 / 0.883	12 / 0.980	12 / 0.997	0 / 0.000	12 / 0.997	13 / 1.098	- / -	- / -	- / -	0 / 0.000	72 / 6.741

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot					
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4							
In	24	3	3	3	2	3	3	3	3	3	3	3	3	4	3	3	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	72
Out	24	3	3	3	2	3	3	3	3	3	3	3	3	4	3	3	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	72

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0590 / V-22 (Tilt/Rotor Acft) Osprey	Modification Number / Title: 4 / MV-22 Avionics Improvements (OSIP 009-19)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Installation 6 of 8: Degraded Visual Environment/Helmet Mounted Display (DVE/HMD)

Manufacturer Information

Manufacturer Name: Bell Boeing	Manufacturer Location: Various
Administrative Leadtime (in Months): 4	Production Leadtime (in Months): 23

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates					Jan 2026	Jan 2027	Jan 2028
Delivery Dates					Dec 2027	Dec 2028	Dec 2029

Installation Information

Method of Implementation: Field Mod Team:: Installation Name: Degraded Visual Environment/Helmet Mounted Display (DVE/HMD)

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	14 / 0.642	0 / 0.000
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	36 / 1.679
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	36 / 1.707
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	247 / 11.489	247 / 11.489
Total	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	14 / 0.642	319 / 14.875

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	4	3	3	319	333
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	4	3	3	319	333

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0590 / V-22 (Tilt/Rotor Acft) Osprey	Modification Number / Title: 4 / MV-22 Avionics Improvements (OSIP 009-19)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Installation 7 of 8: Platform Data Services (PDS)

Manufacturer Information

Manufacturer Name: Raytheon	Manufacturer Location: Indianapolis, IN
Administrative Leadtime (in Months): 4	Production Leadtime (in Months): 23

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates					Jan 2026	Jan 2027	Jan 2028
Delivery Dates					Dec 2027	Dec 2028	Dec 2029

Installation Information

Method of Implementation: Field Mod Team:: Installation Name: Platform Data Services (PDS)

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	14 / 7.488	0 / 0.000
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	36 / 19.583	36 / 19.583
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	36 / 19.916	36 / 19.916
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	247 / 134.028	247 / 134.028
Total	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	14 / 7.488	319 / 173.527

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	4	3	3	319	333
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	4	3	3	319	333

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0590 / V-22 (Tilt/Rotor Acft) Osprey	Modification Number / Title: 4 / MV-22 Avionics Improvements (OSIP 009-19)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Installation 8 of 8: Meshed Network Manager (MNM)

Manufacturer Information

Manufacturer Name: Bell Boeing	Manufacturer Location: Various
Administrative Leadtime (in Months): 11	Production Leadtime (in Months): 1

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates	Aug 2022						
Delivery Dates	Sep 2022						

Installation Information

Method of Implementation: Field Mod Team:: Installation Name: Meshed Network Manager (MNM)

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	5 / 2.690	13 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	18 / 2.690
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	5 / 2.690	13 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	18 / 2.690

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot			
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4					
In	-	-	-	-	5	5	4	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	18
Out	-	-	-	-	5	5	4	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	18

Footnotes:
⁽²⁴⁾ ECP 1067 Traffic Collision Avoidance System (TCAS) - Prior year installs have been updated for actual quantities procured. Aircraft previously recorded in prior year have been reduced to account for installs that were delayed due to aircraft availability. Prior installs are now phased across the FYDP to reflect updated Mod schedule. Also, installs with zero dollars associated quantities are fully funded and have a period of performance that crosses fiscal years.

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0590 / V-22 (Tilt/Rotor Acft) Osprey	Modification Number / Title: 4 / MV-22 Avionics Improvements (OSIP 009-19)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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⁽²⁵⁾ ECP 1067 (TCAS) Delta Kits - are being procured to bridge the gap in the modification line.

⁽²⁶⁾ ECP 1155 (IASE) DV2 Config A-C - Aircraft previously recorded in prior year have been reduced to account for installs that were delayed due to aircraft availability. Prior installs are now phased across the FYDP to reflect updated Mod schedule. Also, installs with zero dollars associated are fully funded and have a period of performance that crosses fiscal years. Also, this line was previously split out between organic and non-organic due to some of the quantities being installed on the CC-RAM mod line. With the cancelation of CC-RAM effort, the kit quantities are now all shown on one line with the correlating install schedule.

⁽²⁷⁾ Common Electronic Standby Indicator (CESI) - A-Kit procurement starts in FY 2024.

⁽²⁸⁾ Common Electronic Standby Indicator (CESI) - B-Kit procurement starts in FY 2024.

⁽²⁹⁾ Training Equipment - is to procure an MV Flight simulator, which are bought every two years, upgrade the visual database.

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0590 / V-22 (Tilt/Rotor Acft) Osprey	Modification Number / Title: 5 / CMV-22 Improvements (OSIP 005-20)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	27.865	23.212	20.815	30.789	0.000	30.789	24.554	34.609	38.419	38.655	229.493	468.411
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	27.865	23.212	20.815	30.789	0.000	30.789	24.554	34.609	38.419	38.655	229.493	468.411
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	27.865	23.212	20.815	30.789	0.000	30.789	24.554	34.609	38.419	38.655	229.493	468.411

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

OSIP 005-20 is for the modification of delivered CMV-22s for critical interoperability capabilities including Link-16 for Carrier Strike Group/Expeditionary Strike Group (CSG/ESG) interoperability and secure Military Satellite (MILSAT) connectivity through integration of Mobile Users Objective System (MUOS). This includes a required modification for compliance with FAR 121-345/347 for Beyond Line of Sight (BLOS) Air Traffic Control(ATC), Required Navigation Performance/Area Navigation (RNP/RNAV) capabilities, and Terrain Awareness and Warning System (TAWS).

Current ECPs:

ECP 1196.1 Coanda Valve Reliability Improvement: Improve reliability of the Coanda Valve and associated wiring harness. Intent is to reduce "false positive" fault indications while addressing a number of priority failure modes.

Other component improvement objectives include improved maintenance footprint, compliance with IUID requirements, and improved harness reparability.

ECP 0962 V-22 Proprotor Gear Box (PRGB) Input Quill/Clutch Upgrade: Eliminate resident issues with Input Quill and clutch and to purge fleet of Thin Densed Chrome. Upgrade of the PRGB Input Quill overrunning clutch to change sprag engagement characteristics. The development of an improved PRGB Input Quill and Clutch that is less prone to slipping. Therefore, it will be less prone to hard clutch engagements, which is a category 1-D Serious Safety risk to the V-22 fleet. This effort will be a 2-Part ECP. Step 1 will provide for the development, procurement of prototypes, and qualification testing of the improved design. Step 2 will procure kits and spares and implement the improved input quill and clutch across the fleet.

COMMS Upgrade / Link 16: Air to Air Data Link which improves situational awareness and provides secure voice/Text with other Aircraft; as well as communication with Air Traffic Control.

Mobile User Objective System (MUOS): Improves satellite communications. Legacy SATCOM satellites are degrading at a rate which will render them unusable at a future date. This effort is will incorporate the upgraded High Power Amplifier / Low Noise Amplifier, Ethernet switch wiring to the Gen 6 radio, and MUOS software for CMV/MV/CV to enable communications on the MUOS MIL SATCOM Network to include the Tactical Secure Voice (TSV) 2.1 encryption and Multi-media / Data and Video capabilities.

ECP 1115.1 Conversion Area Harness (CAH): Increase reliability of the CAH by upgrading the harness, wire type, ribbons and connectors.

ECP 1206 Auxiliary Power Unit (APU) K8/K9 Improvement: Improve power distribution contactors K8 and K9 that provide power during APU starts. This change will provide appropriately-rated contactors to prevent damage to the APU, other power distribution components, and the aircraft.

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0590 / V-22 (Tilt/Rotor Acft) Osprey	Modification Number / Title: 5 / CMV-22 Improvements (OSIP 005-20)
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:
<p>ECP 1167 Troop Seat Retrofit Pin: Troop Seat retrofit/improvement would upgrade the troop seat pin from a -507 to a -509 configuration.</p> <p>ECP 0163 Gimbal Ring Joint: This ECP increases mean time between failures of the swashplate and hub assembly (which includes the gimbal assembly).</p> <p>ECP 1014.2 Drive Link/Proprotor Hub Spring Change: The drive link and hub spring are critical components of the Proprotor Hub Assembly. This effort will reduce the current safety risk and improve readiness of aircraft.</p> <p>ECP 1152 Advanced Multifunction Display (AMFD): Upgrades cockpit flight displays providing: 30 lbs. weight savings, less cooling and power requirements, significant obsolescence avoided, and greater pilot display capabilities.</p> <p>ECP 1155 Department of Navy Large Aircraft Infrared Countermeasure Processor Upgrade (DLPU) / Config D Integrated Aircraft Survivability Equipment (IASE): Will correct deficiencies of the current Radar Warning System, replace the existing Missile Warning System, implement an active Infrared countermeasure system, upgrade current countermeasures dispenser and provide integrated threat information on current aircraft main flight displays.</p> <p>Cargo Handling Locking Rails: (Future ECP) Will integrate the cargo locking rails to reduce platform weight, reduce turnaround time to load & unload cargo (critical to the COD mission) and assist in cargo unloading.</p> <p>Garmin: Effort will install Commercial off-the-shelf (COTS) Garmin products for RNP/RNAV capability. This will also allow aircraft to execute a precision RNAV approach, facilitating efficient worldwide operations.</p> <p>Cockpit ICS Harness: The current high strain on the Pilot/Co-Pilot headset harness airframe mounting configuration results in frequent failure of the cockpit ICS connection to the pilot helmet. The existing harnesses are routed behind the pilot seats; making it impossible to quickly troubleshoot or replace and causes reduced mission availability. The ECP creates a quick disconnect in the ICS harness to allow rapid remove and replacement capability for improved mission availability. This will install a wireless intercommunications system in the CMV-22; a critical enable of safety of flight with pilots and aircrew during loading and unloading of the aircraft that will facilitate turnaround time on the deck of aircraft carriers during Carrier On-board delivery missions.</p> <p>ECP 1214 Mast Torque Sensor System (MTSS): Four parts in the MTSS are obsolete (Application Specific Integrated Circuit (ASIC), Electronically Erasable Programmable Read-Only Memory (EEPROM), Voltage Regulator & Oscillator) and unanticipated PRBG Mast corrosion repairs are depleting component inventories. Sustainment strategy is to support production to completion of life cycle effort until 2045. Phase 1 NRE will qualify replacements parts. Phase II will execute bridge buys (ASIC and EEPROM) and cut in alternative repair parts (Voltage Regulator (VR) and Oscillator) into the Supply System.</p> <p>Mission Computer Obsolescence Incentive (MCOI): MCOI will replace several components and allow planned capabilities to operate without memory processing power or memory storage.</p> <p>Joint Avionics Reconfigurable Virtual Information System (JARVIS): Upgraded Open System Architecture / Cyber Security supports the additional requirements for the JARVIS single board computer module. The V-22 vertical aviation program is replacing the existing Integrated Avionics Processor (IAP) due to obsolescence, cybersecurity vulnerabilities, and diminishing manufacturing sources with JARVIS mission computers. JARVIS physically and functionally replaces each IAP, while also incorporating software reconfigurability and cyber-security requirements. JARVIS will re-host V-22 Application System Software, provide display processing for the cockpit Multi-Function Displays, and provide digital map functionality.</p> <p>ECP 1099 Flight Control System (FCS): Flight Control System replaces obsolescent (FCC) with upgraded hardware and software with capability for future correction of deficiencies. This critical effort is integral to operational readiness and safety due to limited replacement component availability for current hardware and will have the processing capability to handle additional flight control laws to improve aircraft handling qualities: flight control laws are programs incorporated into the FCC that protect the aircraft from critical drivetrain, airframe, and Proprotor gear damage.</p> <p>Multifunctional Information Distribution System / Joint Tactical Radio System (MIDS JTRS): Replaces many legacy radios in military platforms, reducing any need for excessive spares and logistics support. MIDS JTRS is a 4-channel radio that runs the complex Link 16 waveform plus up to three more communication protocols, including the Tactical Targeting Network Technology (TTNT).</p>		

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Exhibit P-3a, Individual Modification: PB 2024 Navy										Date: March 2023			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0590 / V-22 (Tilt/Rotor Acft) Osprey						Modification Number / Title: 5 / CMV-22 Improvements (OSIP 005-20)			
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: CMV-22				Modification Type: Safety, Improved Mission Capability				Related RDT&E PEs:					
Financial Plan <small>(*) Indicates the modification is being installed organically and no installation funds are required.</small>	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
1.1.1) ECP 1196.1 Coanda Valve Reliability Improvement - Organic ^(*) (30)	- / -	- / -	- / -	13 / 0.356	- / -	13 / 0.356	35 / 0.975	- / -	- / -	- / -	- / -	48 / 1.331	
1.1.2) ECP 0962 Proprotor Input Quill/Clutch Upgrade - Organic ^(*)	- / -	- / -	- / -	- / -	- / -	- / -	- / -	6 / 2.482	6 / 2.524	6 / 2.567	30 / 13.055	48 / 20.628	
1.1.3) Comms Upgrade / Link 16 - NonOrganic Installation 1 of 4	3 / 2.496	3 / 2.639	4 / 3.579	4 / 3.639	- / -	4 / 3.639	4 / 3.701	6 / 5.646	6 / 5.742	6 / 5.840	12 / 11.879	48 / 45.161	
1.1.4) Mobil User Objective System - Organic ^(*) (31)	- / -	- / -	- / -	4 / 0.412	- / -	4 / 0.412	4 / 0.419	4 / 0.426	4 / 0.433	4 / 0.441	28 / 3.138	48 / 5.269	
1.1.5) ECP 1115.1 Conversion Area Harness - NonOrganic Installation 2 of 4	6 / 0.825	9 / 1.237	6 / 0.839	6 / 0.853	- / -	6 / 0.853	4 / 0.578	4 / 0.588	2 / 0.299	- / -	- / -	37 / 5.219	
1.1.6) ECP 1206 APU K8/K9 Improvement - Organic ^(*) (32)	- / -	- / -	- / -	36 / 0.211	- / -	36 / 0.211	12 / 0.052	- / -	- / -	- / -	- / -	48 / 0.263	
1.1.7) ECP 1167 Troop Seat Pin - Organic ^(*)	15 / 0.092	10 / 0.062	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	25 / 0.154	
1.1.8) ECP 0163 Gimbal Ring Joint - Organic ^(*)	- / -	- / -	6 / 0.337	4 / 0.228	- / -	4 / 0.228	4 / 0.232	4 / 0.236	4 / 0.240	4 / 0.244	22 / 1.367	48 / 2.884	
1.1.9) ECP 1014.2 Drive Link / Prop Rotor Hub Spring - Organic ^(*)	- / -	- / -	2 / 0.507	2 / 0.516	- / -	2 / 0.516	- / -	- / -	- / -	- / -	- / -	4 / 1.023	
1.1.10) ECP 1152 Advanced Multifunction Display (AMFD) - Organic ^(*)	8 / 0.044	- / -	- / -	13 / 0.091	- / -	13 / 0.091	- / -	- / -	- / -	- / -	- / -	21 / 0.135	
1.1.11) ECP 1155 IASE / DLPU Config D - NonOrganic Installation 3 of 4	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 1.468	2 / 1.493	4 / 3.037	40 / 30.883	48 / 36.881	
1.1.12) Cargo Handling Locking Rails - Organic ^(*)	- / -	- / -	- / -	- / -	- / -	- / -	4 / 0.538	4 / 0.547	4 / 0.556	4 / 0.566	32 / 4.603	48 / 6.810	
1.1.13) GARMIN - NonOrganic Installation 4 of 4	8 / 0.512	8 / 0.521	9 / 0.596	9 / 0.606	- / -	9 / 0.606	9 / 0.617	5 / 0.348	- / -	- / -	- / -	48 / 3.200	
1.1.14) Cockpit ICS Harness - Organic ^(*)	- / -	- / -	36 / 0.044	12 / 0.015	- / -	12 / 0.015	- / -	- / -	- / -	- / -	- / -	48 / 0.059	
1.1.15) ECP 1214 Mast Torque Sensor System (MTSS) - Organic ^(*) (33)	- / -	- / -	- / -	48 / 0.318	- / -	48 / 0.318	- / -	- / -	- / -	- / -	- / -	48 / 0.318	
1.1.16) ECP 0873R4A1 Mission Computer Obsolescence Incentive (MCOI) - Organic ^(*)	- / -	6 / 6.920	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	6 / 6.920	
1.1.17) Archived ECPs - Organic ^(*)	49 / 0.966	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	49 / 0.966	
1.2.1) Installation A Kit N/R - Organic ^(*) (34)	- / 1.088	- / 0.918	- / 1.760	- / 11.171	- / -	- / 11.171	- / 2.755	- / 3.887	- / -	- / -	- / 16.500	- / 38.079	
2.1.1) Joint Avionics Reconfig Virtual Information System (JARVIS) - Organic ^(*)	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4 / 0.839	4 / 0.853	40 / 8.529	48 / 10.221	
2.1.2) ECP 1099 Flight Control System (FCS) - Organic ^(*)	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	6 / 8.536	6 / 8.680	30 / 43.400	42 / 60.616	
2.1.3) ECP 1152 Adv Multi Function Display (AMFD) - Organic ^(*)	8 / 0.651	- / -	- / -	13 / 1.633	- / -	13 / 1.633	- / -	- / -	- / -	- / -	- / -	21 / 2.284	

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Exhibit P-3a, Individual Modification: PB 2024 Navy										Date: March 2023			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0590 / V-22 (Tilt/Rotor Acft) Osprey						Modification Number / Title: 5 / CMV-22 Improvements (OSIP 005-20)			
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: CMV-22				Modification Type: Safety, Improved Mission Capability				Related RDT&E PEs:					
Financial Plan <small>(*) Indicates the modification is being installed organically and no installation funds are required.</small>	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
2.1.4 COMMs Upgrade / Link 16 - Organic ^(*)	- / -	6 / 3.179	4 / 2.155	4 / 2.192	- / -	4 / 2.192	4 / 2.229	6 / 3.401	6 / 3.459	6 / 3.518	12 / 10.731	48 / 30.864	
2.1.5 MIDs JTTRs - Organic ^(*) (35)	- / -	6 / 1.289	4 / 0.874	4 / 0.889	- / -	4 / 0.889	4 / 0.904	4 / 0.919	4 / 0.935	4 / 0.951	15 / 3.626	45 / 10.387	
2.1.6 Ethernet Expansion Device (EED) - Organic ^(*)	- / -	- / -	4 / 0.120	4 / 0.122	- / -	4 / 0.122	4 / 0.124	4 / 0.126	4 / 0.128	4 / 0.131	24 / 0.797	48 / 1.548	
Subtotal: Procurement	- / 6.674	- / 16.765	- / 10.811	- / 23.252	- / -	- / 23.252	- / 13.124	- / 20.074	- / 25.184	- / 26.828	- / 148.508	- / 291.220	
Support													
3.1) Training Equipment ⁽³⁶⁾	- / 2.948	- / -	- / 2.264	- / -	- / -	- / -	- / 0.986	- / 6.588	- / 0.969	- / 2.568	- / 4.705	- / 21.028	
3.2) Support Equipment	- / 15.351	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 15.351	
3.3) DATA	- / 10.055	- / 0.056	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 10.111	
3.4) ILS	- / 10.402	- / 0.300	- / 0.305	- / 0.135	- / -	- / 0.135	- / 0.137	- / 0.139	- / 0.142	- / 0.144	- / 8.700	- / 10.404	
3.5) Software	- / 4.704	- / 0.009	- / 0.010	- / 0.010	- / -	- / 0.010	- / 1.814	- / 0.011	- / 2.897	- / 0.012	- / 2.500	- / 11.967	
3.6) Other Support	- / 17.431	- / 2.182	- / 2.220	- / 3.011	- / -	- / 3.011	- / 4.038	- / 4.107	- / 4.827	- / 5.498	- / 27.488	- / 60.802	
Subtotal: Support	- / 20.891	- / 2.547	- / 4.799	- / 3.156	- / -	- / 3.156	- / 6.975	- / 10.845	- / 8.835	- / 8.222	- / 43.393	- / 109.663	
Installation													
Installation 1 of 4: Comms Upgrade / Link 16	- / -	- / 1.236	- / 1.257	- / 1.704	- / 0.000	- / 1.704	- / 1.733	- / 1.763	- / 2.689	- / 2.735	- / 10.198	- / 23.315	
Installation 2 of 4: ECP 1115.1 Conversion Area Harness	- / -	- / 2.359	- / 3.599	- / 2.440	- / 0.000	- / 2.440	- / 2.481	- / 1.682	- / 1.711	- / 0.870	- / 0.000	- / 15.142	
Installation 3 of 4: ECP 1155 IASE / DLPU Config D	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 27.394	- / 27.394	
Installation 4 of 4: GARMIN	- / 0.300	- / 0.305	- / 0.349	- / 0.237	- / 0.000	- / 0.237	- / 0.241	- / 0.245	- / -	- / -	- / 0.000	- / 1.677	
Subtotal: Installation	- / 0.300	- / 3.900	- / 5.205	- / 4.381	- / -	- / 4.381	- / 4.455	- / 3.690	- / 4.400	- / 3.605	- / 37.592	- / 67.528	
Total													
Total Cost (Procurement + Support + Installation)	27.865	23.212	20.815	30.789	0.000	30.789	24.554	34.609	38.419	38.655	229.493	468.411	

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0590 / V-22 (Tilt/Rotor Acft) Osprey	Modification Number / Title: 5 / CMV-22 Improvements (OSIP 005-20)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Installation 1 of 4: Comms Upgrade / Link 16

Manufacturer Information

Manufacturer Name: Bell Boeing	Manufacturer Location: Various
Administrative Leadtime (in Months): 2	Production Leadtime (in Months): 12

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates	Nov 2021	Nov 2022	Nov 2023	Nov 2024	Nov 2025	Nov 2026	Nov 2027
Delivery Dates	Nov 2022	Nov 2023	Nov 2024	Nov 2025	Nov 2026	Nov 2027	Nov 2028

Installation Information

Method of Implementation: Mod Team:: Installation Name: Comms Upgrade / Link 16

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	3 / 1.236	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	3 / 1.236
FY 2022	- / -	- / -	3 / 1.257	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	3 / 1.257
FY 2023	- / -	- / -	- / -	4 / 1.704	0 / 0.000	4 / 1.704	- / -	- / -	- / -	- / -	0 / 0.000	4 / 1.704
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	4 / 1.733	- / -	- / -	- / -	0 / 0.000	4 / 1.733
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4 / 1.763	- / -	- / -	0 / 0.000	4 / 1.763
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	6 / 2.689	- / -	0 / 0.000	6 / 2.689
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	6 / 2.735	0 / 0.000	6 / 2.735
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	6 / 1.854	6 / 1.854
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	12 / 8.344	12 / 8.344
Total	- / -	3 / 1.236	3 / 1.257	4 / 1.704	0 / 0.000	4 / 1.704	4 / 1.733	4 / 1.763	6 / 2.689	6 / 2.735	18 / 10.198	48 / 23.315

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	1	1	1	-	1	1	1	-	2	1	1	-	2	1	1	-	2	1	1	-	2	2	2	-	2	2	2	-	18	48
Out	-	1	1	1	-	1	1	1	-	2	1	1	-	2	1	1	-	2	1	1	-	2	2	2	-	2	2	2	-	18	48

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0590 / V-22 (Tilt/Rotor Acft) Osprey	Modification Number / Title: 5 / CMV-22 Improvements (OSIP 005-20)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Installation 2 of 4: ECP 1115.1 Conversion Area Harness

Manufacturer Information

Manufacturer Name: Bell Boeing	Manufacturer Location: Bell Boeing Amarillo, TX
Administrative Leadtime (in Months): 5	Production Leadtime (in Months): 10

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates	Feb 2022	Feb 2023	Feb 2024	Feb 2025	Feb 2026	Feb 2027	
Delivery Dates	Dec 2022	Dec 2023	Dec 2024	Dec 2025	Dec 2026	Dec 2027	

Installation Information

Method of Implementation: [none specified]:: Installation Name: ECP 1115.1 Conversion Area Harness

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	6 / 2.359	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	6 / 2.359
FY 2022	- / -	- / -	9 / 3.599	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	9 / 3.599
FY 2023	- / -	- / -	- / -	6 / 2.440	0 / 0.000	6 / 2.440	- / -	- / -	- / -	- / -	0 / 0.000	6 / 2.440
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	6 / 2.481	- / -	- / -	- / -	0 / 0.000	6 / 2.481
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4 / 1.682	- / -	- / -	0 / 0.000	4 / 1.682
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4 / 1.711	- / -	0 / 0.000	4 / 1.711
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.870	0 / 0.000	2 / 0.870
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	6 / 2.359	9 / 3.599	6 / 2.440	0 / 0.000	6 / 2.440	6 / 2.481	4 / 1.682	4 / 1.711	2 / 0.870	0 / 0.000	37 / 15.142

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	1	1	2	2	3	3	3	-	3	3	-	-	3	3	-	-	2	2	-	-	2	2	-	-	2	-	-	-	-	37
Out	-	1	1	2	2	3	3	3	-	3	3	-	-	3	3	-	-	2	2	-	-	2	2	-	-	2	-	-	-	-	37

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0590 / V-22 (Tilt/Rotor Acft) Osprey	Modification Number / Title: 5 / CMV-22 Improvements (OSIP 005-20)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Installation 3 of 4: ECP 1155 IASE / DLPU Config D

Manufacturer Information

Manufacturer Name: Bell Boeing	Manufacturer Location: Various
Administrative Leadtime (in Months): 7	Production Leadtime (in Months): 38

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates					Apr 2026	Apr 2027	Apr 2028
Delivery Dates					Jun 2029	Jun 2030	Jun 2031

Installation Information

Method of Implementation: [none specified]:: Installation Name: ECP 1155 IASE / DLPU Config D

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 3.296	2 / 3.296
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 3.352	2 / 3.352
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4 / 3.409	4 / 3.409
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	40 / 17.337	40 / 17.337
Total	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	48 / 27.394	48 / 27.394

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	48	48
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	48	48

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0590 / V-22 (Tilt/Rotor Acft) Osprey	Modification Number / Title: 5 / CMV-22 Improvements (OSIP 005-20)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Installation 4 of 4: GARMIN

Manufacturer Information

Manufacturer Name: Bell Boeing	Manufacturer Location: Various
Administrative Leadtime (in Months): 4	Production Leadtime (in Months): 4

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates	Jan 2022	Jan 2023	Jan 2024	Jan 2025	Jan 2026		
Delivery Dates	May 2022	May 2023	May 2024	May 2025	May 2026		

Installation Information

Method of Implementation: [none specified]:: Installation Name: GARMIN

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	8 / 0.300	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	8 / 0.300
FY 2022	- / -	8 / 0.305	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	8 / 0.305
FY 2023	- / -	- / -	9 / 0.349	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	9 / 0.349
FY 2024	- / -	- / -	- / -	9 / 0.237	0 / 0.000	9 / 0.237	- / -	- / -	- / -	- / -	0 / 0.000	9 / 0.237
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	9 / 0.241	- / -	- / -	- / -	0 / 0.000	9 / 0.241
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	5 / 0.245	- / -	- / -	0 / 0.000	5 / 0.245
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	8 / 0.300	8 / 0.305	9 / 0.349	9 / 0.237	0 / 0.000	9 / 0.237	9 / 0.241	5 / 0.245	- / -	- / -	0 / 0.000	48 / 1.677

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	8	-	-	4	4	-	-	5	4	-	-	5	4	-	-	5	4	-	-	3	2	-	-	-	-	-	-	-	-	-	-
Out	8	-	-	4	4	-	-	5	4	-	-	5	4	-	-	5	4	-	-	3	2	-	-	-	-	-	-	-	-	-	-

Footnotes:
⁽³⁰⁾ ECP 1196.1 Coanda Valve Reliability Improvement - Kit procurement starts in FY 2024.
⁽³¹⁾ Mobil User Objective System (MUOS) - Kit procurement starts in FY 2024.
⁽³²⁾ ECP 1206 APU K8/K9 Improvement - Kit procurement starts in FY 2024.

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0590 / V-22 (Tilt/Rotor Acft) Osprey	Modification Number / Title: 5 / CMV-22 Improvements (OSIP 005-20)
ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:	

- (33) ECP 1214 Mast Torque Sensor System (MTSS) - Kit procurement starts in FY 2024.
- (34) NRE in FY 2024 is for DLPU / IASE Config D interface.
- (35) MIDs JTTRs - Moved from A-Kit to B-Kit.
- (36) Training Equipment - FY 2026 is to procure flight simulator (which are bought every two years) and upgrade the visual database.

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Exhibit P-40, Budget Line Item Justification: PB 2024 Navy **Date:** March 2023

Appropriation / Budget Activity / Budget Sub Activity: 1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft	P-1 Line Item Number / Title: 0591 / Next Generation Jammer (NGJ)
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: 0604274N, 0604282N	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	163.735	255.393	463.146	426.396	0.000	426.396	455.001	448.263	480.017	440.755	5,187.134	8,319.840
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	163.735	255.393	463.146	426.396	0.000	426.396	455.001	448.263	480.017	440.755	5,187.134	8,319.840
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	163.735	255.393	463.146	426.396	0.000	426.396	455.001	448.263	480.017	440.755	5,187.134	8,319.840

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The Next Generation Jammer (NGJ) is the next step in the evolution of Airborne Electronic Attack (AEA) and is a critical capability necessary to address current, emerging, and evolving Electronic Warfare gaps, ensure kill chain wholeness against growing threat capabilities and capacity, keep pace with enemy threat weapon systems' advancements, and support the continuous expansion of the AEA mission areas that exceed the capability of currently fielded systems. NGJ will utilize enhanced techniques and tactics to deliver significantly improved radar and communications jamming effectiveness as well as other classified capabilities. Utilizing an Open Systems Architecture that supports software and hardware updates to rapidly counter emergent and evolving threats, NGJ is a key enabler and force multiplier for operations across the spectrum of missions defined in the Defense Strategic Guidance, including strike warfare, projecting power despite anti-access/area denial challenges, and counterinsurgency/irregular warfare. NGJ will also address the shortfalls in scalability, flexibility, supportability, interoperability, availability, and capability of the existing AN/ALQ-99 Tactical Jamming System.

The overall goal of the modifications budgeted in BLI 0591 is to implement the Next Generation Jammer weapon system.

OSIP 002-19 Next Generation Mid-Band (NGJ-MB) provides the EA-18G with the NGJ capability in the middle band frequency spectrum.

OSIP 001-26 Next Generation Low Band (NGJ-LB) provides the EA-18G with the NGJ capability in the low band frequency spectrum.

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Exhibit P-40, Budget Line Item Justification: PB 2024 Navy **Date:** March 2023

Appropriation / Budget Activity / Budget Sub Activity:
1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft

P-1 Line Item Number / Title:
0591 / Next Generation Jammer (NGJ)

ID Code (A=Service Ready, B=Not Service Ready): A **Program Elements for Code B Items:** 0604274N, 0604282N **Other Related Program Elements:** N/A

Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	1 / Next Generation Jammer Mid-Band (NGJ-MB) (OSIP 002-19) (RELIABILITY / MISSION CAPABILITY)			445	- / 163.735	- / 255.393	- / 463.146	- / 426.396	- / 0.000	- / 426.396
P-3a	2 / Next Generation Jammer Low Band (NGJ-LB) (OSIP 01-26) (TBD)			P520	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000
P-40	Total Gross/Weapon System Cost				- / 163.735	- / 255.393	- / 463.146	- / 426.396	- / 0.000	- / 426.396

Exhibits Schedule					FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	1 / Next Generation Jammer Mid-Band (NGJ-MB) (OSIP 002-19) (RELIABILITY / MISSION CAPABILITY)			445	- / 455.001	- / 448.263	- / 480.017	- / 440.755	- / 2,392.308	- / 5,525.014
P-3a	2 / Next Generation Jammer Low Band (NGJ-LB) (OSIP 01-26) (TBD)			P520	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 2,794.826	- / 2,794.826
P-40	Total Gross/Weapon System Cost				- / 455.001	- / 448.263	- / 480.017	- / 440.755	- / 5,187.134	- / 8,319.840

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

Justification:
 FY 2024 request includes the procurement of 9 shipsets (2 pods per shipset) of AN/ALQ-249 Next Generation Jammer Mid-Band (NGJ-MB) for Full Rate Production 1, Support Equipment (SE), Training Equipment, Integrated Logistics Support (ILS), Other Support and Data. FY 2024 SE request increases due to Operational level (O-level) Depot level (D-level) repair capability stand up, Intermediate level (I-level) repair SE, NRE for Operational Test Program Set (OTPS), pod shipping containers and rack systems. FY 2024 training equipment request funds Tactical Operational Flight Trainers (TOFT), updating courseware and conducting courses for both fleet aircrew and fleet maintainers. ILS includes Interim Contractor Support (ICS) and Fleet Service Representative (FSR) support from the prime contractor to support initial Fleet squadrons and deployments. Other Support is production engineering support required to execute the NGJ-MB production program from multiple field activities. FY 2024 Data request includes both I-Level and D-Level data procurement to stand up Intermediate and Depot level repair capability. The 9 FRP 1 NGJ-MB shipsets requested in FY 2024 will support the initial standup of the third and fourth carrier squadrons.

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0591 / Next Generation Jammer (NGJ)	Modification Number / Title: 1 / Next Generation Jammer Mid-Band (NGJ-MB) (OSIP 002-19)

ID Code (A=Service Ready, B=Not Service Ready) : **MDAP/MAIS Code:** 445

Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	163.735	255.393	463.146	426.396	0.000	426.396	455.001	448.263	480.017	440.755	2,392.308	5,525.014
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	163.735	255.393	463.146	426.396	0.000	426.396	455.001	448.263	480.017	440.755	2,392.308	5,525.014
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	163.735	255.393	463.146	426.396	0.000	426.396	455.001	448.263	480.017	440.755	2,392.308	5,525.014

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The AN/ALQ-249 Next Generation Jammer - Mid-Band (NGJ-MB) (formerly known as Next Generation Jammer Increment 1) program will address Airborne Electronic Attack (AEA) capability and sufficiency gaps against enemy threats operating in the middle frequency bands of the electromagnetic spectrum. NGJ-MB will provide the ability to effectively engage enemy threats from increased stand-off distances, employ increased capacity (number of jamming assignments) against enemy targets, and support agile employment by operators. The NGJ-MB system will be integrated on the EA-18G tactical aircraft and will augment and then replace the legacy AN/ALQ-99 Tactical Jamming System middle frequency bands.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES

Milestone C occurred 3rd QTR FY 2021 with Initial Operational Capability scheduled for 4th Quarter FY 2023.

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Exhibit P-3a, Individual Modification: PB 2024 Navy										Date: March 2023			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0591 / Next Generation Jammer (NGJ)					Modification Number / Title: 1 / Next Generation Jammer Mid-Band (NGJ-MB) (OSIP 002-19)			
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code: 445						
Models of Systems Affected: EA-18G				Modification Type: RELIABILITY / MISSION CAPABILITY				Related RDT&E PEs: 0604274N					
Financial Plan	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
<i>Modification Item 1 of 1:</i> Next Generation Jammer Mid-Band (NGJ-MB) (OSIP 002-19)													
B Kits													
Recurring													
2.1.1) NGJ Mid-Band Pod Shipset - Organic ⁽¹⁾	3 / 131.576	5 / 162.777	11 / 388.198	9 / 326.669	- / -	9 / 326.669	10 / 343.388	11 / 371.349	11 / 378.791	11 / 378.768	58 / 2,008.700	129 / 4,490.216	
2.1.2) Non-Recurring - Organic	- / -	- / 128.026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 153.272	- / 81.298	
<i>Subtotal: Recurring</i>	- / 131.576	- / 190.803	- / 388.198	- / 326.669	- / -	- / 326.669	- / 343.388	- / 371.349	- / 378.791	- / 378.768	- / 2,061.972	- / 4,571.514	
<i>Subtotal: Next Generation Jammer Mid-Band (NGJ-MB) (OSIP 002-19)</i>	3 / 131.576	5 / 190.803	11 / 388.198	9 / 326.669	- / -	9 / 326.669	10 / 343.388	11 / 371.349	11 / 378.791	11 / 378.768	58 / 2,061.972	129 / 4,571.514	
<i>Subtotal: Procurement, All Modification Items</i>	- / 131.576	- / 190.803	- / 388.198	- / 326.669	- / -	- / 326.669	- / 343.388	- / 371.349	- / 378.791	- / 378.768	- / 2,061.972	- / 4,571.514	
Support (All Modification Items)													
3.1) Support Equipment ⁽²⁾	- / 15.572	- / 28.346	- / 23.196	- / 43.293	- / -	- / 43.293	- / 55.169	- / 32.445	- / 61.530	- / 28.448	- / 39.169	- / 327.168	
3.2) Training Equipment ⁽³⁾	- / -	- / -	- / 12.901	- / 17.403	- / -	- / 17.403	- / 4.495	- / -	- / -	- / -	- / -	- / 24.799	
3.3) ILS ⁽⁴⁾	- / -	- / 1.294	- / -	- / 2.893	- / -	- / 2.893	- / 2.951	- / 3.486	- / 4.042	- / 4.122	- / 21.789	- / 40.577	
3.4) Other Support ⁽⁵⁾	- / 12.031	- / 22.111	- / 24.278	- / 25.012	- / -	- / 25.012	- / 25.512	- / 26.023	- / 26.543	- / 27.074	- / 269.378	- / 457.962	
3.5) Data ⁽⁶⁾	- / 4.556	- / 12.839	- / 14.573	- / 21.126	- / -	- / 21.126	- / 23.486	- / 14.960	- / 9.111	- / 2.343	- / -	- / 102.994	
<i>Subtotal: Support</i>	- / 32.159	- / 64.590	- / 74.948	- / 99.727	- / -	- / 99.727	- / 111.613	- / 76.914	- / 101.226	- / 61.987	- / 330.336	- / 953.500	
Installation													
<i>Subtotal: Installation</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
Total													
Total Cost (Procurement + Support + Installation)	163.735	255.393	463.146	426.396	0.000	426.396	455.001	448.263	480.017	440.755	2,392.308	5,525.014	

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0591 / Next Generation Jammer (NGJ)	Modification Number / Title: 1 / Next Generation Jammer Mid-Band (NGJ-MB) (OSIP 002-19)
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code: 445
Modification Item 1 of 1: Next Generation Jammer Mid-Band (NGJ-MB) (OSIP 002-19)		

Footnotes:

- (1) FY 2023 includes a Congressional Add for additional shipsets, resulting in the procurement of 2 NGJ-MB shipsets over the PB23 budget request of QTY 9. LRIP III unit cost pricing was increased from PB23 following contract negotiations. FY 2023 Support Equipment funding was reduced from the PB23 budget request and realigned to procure LRIP III NGJ-MB shipsets as a result. FY 2024 requests funding for 9 shipsets (2 pods per shipset) of AN/ALQ-249 Next Generation Jammer Mid-Band (NGJ-MB) for Full Rate Production 1. Unit cost growth in FY 2024 is attributed to procuring a lower quantity than FY 2023, in addition to inflation. These 9 shipsets will support the initial standup of the third and fourth carrier squadrons.
- (2) FY 2023 SE Funding was reduced from the PB23 budget request and realigned to procure NGJ-MB B-kit shipsets due to increased LRIP III unit cost pricing following negotiations. FY 2024 SE funding is required to meet Material Support Date of 2027 for Intermediate level (I-level) and Depot level (D-level) repair capability, D-level Operational Test Program Set (OTPS) Non-Recurring Engineering, SE outfitting, multiple sets of I-level PSE, various packaging/handling/storage and transportation equipment (to include shipping containers and storage racks). Common and Peculiar Support Equipment (PSE) is required to establish organic capability for Organizational-Level (O-Level), Intermediate-Level (I-Level), Depot-Level (D-Level) maintenance and repair. Phasing of Support Equipment funding is based on planned Carrier Air Wing and Reserve squadron's stand-up timelines and closely tied to the Master Aviation Plans (MAP).
- (3) FY 2024 training equipment funding is required to update multiple Tactical Operational Flight Trainers (TOFT) for aircrew training, aircrew training courseware updates, Operational Level (O-level) maintenance training courseware updates, and conducting 2 training courses for both Fleet aircrew and Fleet maintainers. Phasing of Training Equipment elements is based on planned Carrier Air Wing and Reserve squadron stand-up, work-up, and deployment cycles. MAP is used as source data to support phasing and planning of requirements.
- (4) FY 2024 Integrated Logistics Support (ILS) funding is required and vital to support the fleet for the duration of fielding, squadron standups, and initial deployment cycles. Fleet Service Representatives (FSR) and Interim Contractor Support (ICS) personnel with the knowledge, skills, and abilities are required to support the operation, installation, modification, maintenance, fault location, and maintainer training of the AN/ALQ-249 weapons system and subsystems. In this role, the FSR's and ICS personnel serve as an integral part of the Fleet Support Team (FST) in-service infrastructure. Failure to provide fleet personnel with adequate ILS support will be detrimental to their ability to complete their mission. Phasing of funding is based on planned Carrier Air Wing and Reserve squadron's stand-up timelines and closely tied to the Master Aviation Plan (MAP).
- (5) Other support includes all production engineering required from various field activities (NAWCAD, NAWCWD, NSWC, etc.) to support NGJ-MB production, as well as organic depot stand up activities.
- (6) FY 2024 Data funding increases to acquire data packages and technical manuals to establish organic capability for I-Level, D-Level repair and maintenance capability. Data includes but is not limited to technical manuals for O-Level and I-Level, repair procedures for D-Level, and Logistics Support Analysis.

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0591 / Next Generation Jammer (NGJ)	Modification Number / Title: 2 / Next Generation Jammer Low Band (NGJ-LB) (OSIP 01-26)

ID Code (A=Service Ready, B=Not Service Ready) : MDAP/MAIS Code: P520

Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	2,794.826	2,794.826
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	2,794.826	2,794.826
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	2,794.826	2,794.826

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The Next Generation Jammer - Low Band (NGJ-LB) (formerly known as Next Generation Jammer Increment II) program will address Airborne Electronic Attack (AEA) capability and sufficiency gaps against enemy threats operating in the lower frequency bands of the electromagnetic spectrum. NGJ-LB will provide the ability to effectively engage enemy threats from increased stand-off distances, employ increased capacity (number of jamming assignments) against enemy targets, and support agile employment by operators. The NGJ-LB system will be integrated on the EA-18G tactical aircraft and will augment and then replace the legacy AN/ALQ-99 Tactical Jamming System in the low band frequencies.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES

Milestone B occurred 1st QTR FY 2021.

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Exhibit P-3a, Individual Modification: PB 2024 Navy											Date: March 2023		
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0591 / Next Generation Jammer (NGJ)							Modification Number / Title: 2 / Next Generation Jammer Low Band (NGJ-LB) (OSIP 01-26)		
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code: P520						
Models of Systems Affected: [No Model Specified]				Modification Type: TBD				Related RDT&E PEs: 0604282N					
Financial Plan	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
<i>Modification Item 1 of 1:</i> Next Generation Jammer Low Band (NGJ-LB) (OSIP 01-26)													
A Kits													
Recurring													
1.1.1) NGJ-LB A-kit - NonOrganic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	140 / 22.738	140 / 22.738
<i>Subtotal: Recurring</i>	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 22.738	- / 22.738
B Kits													
Recurring													
2.1.1) NGJ Low Band Pod Shipset - Organic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	135 / 1,854.213	135 / 1,854.213
<i>Subtotal: Recurring</i>	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1,854.213	- / 1,854.213
Non-Recurring													
2.2.1) Installation Equipment - NonRecurring - Organic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 49.701	- / 49.701
<i>Subtotal: Non-Recurring</i>	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 49.701	- / 49.701
<i>Subtotal: Next Generation Jammer Low Band (NGJ-LB) (OSIP 01-26)</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	275 / 1,926.652	275 / 1,926.652
<i>Subtotal: Procurement, All Modification Items</i>	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1,926.652	- / 1,926.652
Support (All Modification Items)													
3.1) Support Equipment	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 201.975	- / 201.975
3.2) Training Equipment	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 40.023	- / 40.023
3.3) ILS	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 66.834	- / 66.834
3.4) Other Support	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 399.923	- / 399.923
3.5) Data	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 140.732	- / 140.732
<i>Subtotal: Support</i>	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 849.487	- / 849.487
Installation													
<i>Modification Item 1 of 1:</i> Next Generation Jammer Low Band (NGJ-LB) (OSIP 01-26)	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 18.687	- / 18.687
<i>Subtotal: Installation</i>	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 18.687	- / 18.687
Total													
Total Cost (Procurement + Support + Installation)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	2,794.826	2,794.826

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0591 / Next Generation Jammer (NGJ)	Modification Number / Title: 2 / Next Generation Jammer Low Band (NGJ-LB) (OSIP 01-26)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code: P520
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Modification Item 1 of 1: Next Generation Jammer Low Band (NGJ-LB) (OSIP 01-26)

Installation Information

Method of Implementation: [none specified]:: Installation Name: NGJ-LB A-kit

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	140 / 18.687	140 / 18.687
Total	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	140 / 18.687	140 / 18.687

Installation Schedule

PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	140	140
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	140	140

Method of Implementation (Organic): NGJ Low Band Pod Shipset - Not Installed **Installation Quantity:** 135

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2024 Navy **Date:** March 2023

Appropriation / Budget Activity / Budget Sub Activity: 1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft	P-1 Line Item Number / Title: 0592 / F-35 STOVL Series
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ID Code (A=Service Ready, B=Not Service Ready): B	Program Elements for Code B Items: 0604800M, 0604840M	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: 198

Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	838.032	161.776	189.528	311.921	0.000	311.921	282.414	323.411	312.687	252.307	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	838.032	161.776	189.528	311.921	0.000	311.921	282.414	323.411	312.687	252.307	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	838.032	161.776	189.528	311.921	0.000	311.921	282.414	323.411	312.687	252.307	Continuing	Continuing

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The F-35 Joint Strike Fighter (JSF) Program will develop and deploy a family of highly common, affordable, next generation, stealthy, multi-role strike fighters that meet the needs of multiple services and countries. The United States Marine Corps Short Take Off and Vertical Landing (STOVL) Operational Safety Improvement Program provides near and long term long-term improvements to the fleet, focusing on documented deficiencies related to safety, reliability and maintainability, aircraft systems, avionics and Block upgrades. These modifications and selected component changes are being accomplished by contractor field teams and organic depot retrofit activities.

Block upgrades provide a more robust performance in navigation, weapons, avionics, survivability, maneuverability, maintainability, and mission deployment of the F-35B platform. This modification program will bring early production Low Rate Initial Production (LRIP) aircraft and integrated systems to a common fleet configuration as fielded capabilities evolve over the course of the F-35 program.

In order to meet emerging deficiencies, the airframe and integrated systems must be modified as critical corrections/changes are identified. Funds will be used to manage, prepare, process, and incorporate changes to sustain and improve F-35B system operations.

The Structural Life Limit Program Group 2 (SLLP2) will remove life limits below 4,000 hours. The Engineering Change Proposals (ECP) necessary to extend the life of the aircraft to 8,000 hours is known as SLLP3. In 2022, the program finished analysis of the results of the Damage and Durability Testing and developed the initial list of SLLP3 issues. Non-recurring engineering to develop the engineering solutions and ECPs for SLLP 3 began in FY2023. In FY2024, the program will continue to install SLLP2 ECPs while continuing to develop the engineering solutions for SLLP3 ECPs. The program intends to award SLLP3 ECPs as soon as possible to maximize installation efficiency in the future.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES

FY2022 was the first year of procurement for Lot 15/Tech Refresh 3 (TR-3) Block 4 capabilities with TR-3 deliveries planned for FY2024. In FY2023, the program began purchasing Lot 16 and Lot 17 retrofit kits to deliver additional Block 4 capabilities. In FY2024, the program plans to begin kit procurements for Lot 19 hardware while continuing to buy Lot 15, 16, and 17 kits. The program plans to complete TR-3 kit procurements for F-35B in 2024. Additionally, the program will begin installing Tech Refresh 3 (TR-3) kits in calendar year 2024.

In FY2024, Ogden Air Logistics Complex will expand from 19 to 30 modification docks. F-35B Laser Shock Peening will continue at both Ogden Air Logistics Complex and Fleet Readiness Center East in 2024.

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2024 Navy **Date: March 2023**

Appropriation / Budget Activity / Budget Sub Activity: 1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft **P-1 Line Item Number / Title:** 0592 / F-35 STOVL Series

ID Code (A=Service Ready, B=Not Service Ready): B **Program Elements for Code B Items:** 0604800M, 0604840M **Other Related Program Elements:** N/A

Line Item MDAP/MAIS Code: 198

Exhibits Schedule					Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	1 / F-35 STOVL CORRECTION OF DEFICIENCIES (OSIP 004-19) (Capability Improvement)				- / 136.770	- / 90.051	- / 88.743	- / 100.152	- / 0.000	- / 100.152
P-3a	2 / F-35 STOVL PROPULSION (OSIP 010-20) (Engine Related Modifications)				- / 16.231	- / 2.580	- / 7.400	- / 8.556	- / 0.000	- / 8.556
P-3a	3 / F-35 STOVL BLOCK 4 UPGRADE (OSIP 012-20) (Capability Improvement)				- / 20.140	- / 59.060	- / 87.923	- / 198.713	- / 0.000	- / 198.713
P-3a	4 / F-35 STOVL RELIABILITY AND MAINTAINABILITY (OSIP 009-21) (Capability Improvement)				- / 0.000	- / 10.085	- / 5.462	- / 4.500	- / 0.000	- / 4.500
P-3a	5 / Inactive/Completed OSIPs (Archive)				- / 664.891	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000
P-40	Total Gross/Weapon System Cost				- / 838.032	- / 161.776	- / 189.528	- / 311.921	- / 0.000	- / 311.921

Exhibits Schedule					FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	1 / F-35 STOVL CORRECTION OF DEFICIENCIES (OSIP 004-19) (Capability Improvement)				- / 101.974	- / 121.983	- / 134.456	- / 108.318	- / 372.030	- / 1,254.477
P-3a	2 / F-35 STOVL PROPULSION (OSIP 010-20) (Engine Related Modifications)				- / 14.623	- / 15.525	- / 9.651	- / 2.883	Continuing	Continuing
P-3a	3 / F-35 STOVL BLOCK 4 UPGRADE (OSIP 012-20) (Capability Improvement)				- / 152.560	- / 162.896	- / 142.675	- / 133.133	- / 85.251	- / 1,042.351
P-3a	4 / F-35 STOVL RELIABILITY AND MAINTAINABILITY (OSIP 009-21) (Capability Improvement)				- / 13.257	- / 23.007	- / 25.905	- / 7.973	- / 0.000	- / 90.189
P-3a	5 / Inactive/Completed OSIPs (Archive)				- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 664.891
P-40	Total Gross/Weapon System Cost				- / 282.414	- / 323.411	- / 312.687	- / 252.307	Continuing	Continuing

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.
 Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

Justification:
 Basis for FY2024 budget request is to continue to fund the F-35B Total Active Inventory of 159 aircraft. Based on production of Lots 2-15 aircrafts, FY2024 funding increased for kits and installs to support Structural Life Limited Parts Group 2 (SLLP2), the acceleration of modification efforts to a Block 4 configuration, Correction of Deficiency, Propulsion, and Reliability and Maintainability modifications in support of global F-35B operations.

 F-35B depot aircraft installation costs will increase FY2024 due to a rise in the number of inductions and the increase in number of modifications authorized to be installed during each induction. The program expects modification hours for Correction of Deficiencies to increase by 24 percent reaching 164,887 hours in FY2024. F-35B SLLP2 modifications are projected to complete in 2034. Delays in funding will put that completion date at risk.

 For Block 4, the program expects to achieve the maximum enterprise capacity for lot 17 kit procurements of 216 shipsets per year in 2024. Similarly, lot 19 procurements will begin at 70 percent of their maximum capacity of 225 shipsets per year in 2024 before reaching full capacity in 2025.

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Exhibit P-40, Budget Line Item Justification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft		P-1 Line Item Number / Title: 0592 / F-35 STOVL Series
ID Code (A=Service Ready, B=Not Service Ready): B	Program Elements for Code B Items: 0604800M, 0604840M	Other Related Program Elements: N/A
Line Item MDAP/MAIS Code: 198		

Empty justification area for the budget line item.

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0592 / F-35 STOVL Series	Modification Number / Title: 1 / F-35 STOVL CORRECTION OF DEFICIENCIES (OSIP 004-19)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	136.770	90.051	88.743	100.152	0.000	100.152	101.974	121.983	134.456	108.318	372.030	1,254.477
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	136.770	90.051	88.743	100.152	0.000	100.152	101.974	121.983	134.456	108.318	372.030	1,254.477
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	136.770	90.051	88.743	100.152	0.000	100.152	101.974	121.983	134.456	108.318	372.030	1,254.477

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

F-35 STOVL Correction of Deficiencies provides near and long-term improvements to fielded F-35B jets and focuses on correcting documented deficiencies related to safety, maintainability, life limits, and aircraft systems. Funds are required to manage, prepare, process, and incorporate Engineering Change Proposals (ECP) to sustain and improve F-35B system operations. Artisans at the organic depot and contractor field teams perform the installation of these modifications and selected component changes into the Air System. In order to meet emerging deficiencies, the airframe and integrated systems require modifications to resolve the identified deficiencies.

The major thrust under this OSIP is Structural Life Limited Parts 2 (SLLP2) deficiencies. The SLLP2 program focuses on resolving identified life limits up to 4,000 flight hours. Currently, 48 ECPs make up the F-35B SLLP2 program scope, requiring a retrofit solution to remove the life limit constraint.

Additionally, this OSIP covers the SLLP2 follow-on program known as SLLP3. SLLP3 resolves life limits from 4,000 to 8,000 hours, enabling the aircraft to meet full life of 8,000 flight hours. The SLLP3 program starts Non-Recurring Engineering (NRE) in FY2023, material buys in FY2025 and installations in FY2027.

In FY2024, the program will be establishing the full scope of modifications for SLLP3. Teardown of full-scale durability test assets completed in October 2018 with analysis continuing through FY2022. After analysis, the program will conduct NRE to develop the engineering solutions to fix the technical issues. In FY2024, the program will continue NRE to develop the highest priority SLLP3 ECPs. The program has begun inputting the initial SLLP3 ECPs into the tables below, but the program expects to identify additional Engineering Change Proposals (ECP) during analysis and through continued fleet operations.

In FY2020 and continuing through the FYDP, Laser Shock Peening (LSP) stood-up at Fleet Readiness Center-East to resolve three ECPs on the F-35B aircraft. The three LSP ECPs are located on the FS-472 Bulkhead, FS-496 Bulkhead, and the Wing Rear Spar. LSP is a process where a unique high-energy laser is fired at an ablative material on the surface of a metal part to generate pressure pulses up to one million pounds per square inch, which send shock waves through the part. Multiple firings of the laser in a pre-defined surface pattern will impart a layer of residual compressive stress that is up to four times deeper than that attainable from conventional peening treatments. Deeper levels of compressive stress provide greater resistance to potential fatigue and corrosion failures. In FY2022, the program stood up LSP at Ogden Air Logistics Complex and began inducting F-35B aircraft.

SLLP material costs differences between first year and subsequent years is due to cost share agreements between the government and the prime contractor.

The SLLP 2 ECP phases implement the following ECPs listed below.

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0592 / F-35 STOVL Series	Modification Number / Title: 1 / F-35 STOVL CORRECTION OF DEFICIENCIES (OSIP 004-19)
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:
<p>Phase 1: Phase 1 is scheduled for Depot Inductions at Fleet Readiness Center-East (FRC-E) and Ogden Air Logistics Center (OO-ALC). Each induction mod package is intended to be no more than 8,000 installation hours.</p> <p>ECP-0525 - F-35B FS 402 UPPER FRAME [LRIP 7-8] ECP-0661 - F-35B FS518 LOWER BULKHEAD [LRIP 2-4] ECP-0673 - F-35B FS496 BULKHEAD (LSP) [LRIP 2-10] ECP-0808 - F-35B WING TO BODY MID-LONGERON [LRIP 2-12] ECP-0811 - F-35B BULKHEADS- FS236.5 LH & FS191.5 RH [LRIP 2-11] ECP-0901 - F-35B VERTICAL TAIL FWD SHEAR FITTING BUSH [LRIP 2-14] ECP-0919 - F-35B FS 402 UPPER OUTBOARD FRAMES [LRIP 2-11] ECP-1002 - F-35B VERTICAL TAIL (VT) RUDDER HINGE 2 BRACKET [LRIP 2-13] ECP-1034 - F-35B FS 402 & 365 LIMITED LIFE MOD [LRIP 2-12] ECP-1066 - F-35B WING SPAR 9 INBD + A40 [LRIP 2-12] ECP-1164 - F-35B FS-425 BULKHEAD [LRIP 2-9] ECP-1268 - F-35B FS-496 BULKHEAD [LRIP 2-15] ECP-1322 - F-35B FS-425 BULKHEAD [LRIP 2-15] ECP-1257 - F-35B NACELLE VENT INLETS [LRIP 2-6]</p> <p>Phase 2: Phase 2 is scheduled for Contractor Field Team aircraft inductions across F-35B operational sites. Each induction mod package is intended to be smaller induction packages relative to Phase 1 to continue removing flight hour restrictions and quickly return the aircraft to the respective squadron.</p> <p>ECP-0610 - F-35B FS518 LOWER BULKHEAD [LRIP 2-9] ECP-0624 - F-35B AFT BOOM CLOSEOUT FRAME [LRIP 2-11] ECP-0629 - F-35B AFT FUSE KICK SUPPORT FRAME [LRIP 2-11] ECP-0678 - F-35B LIFT FAN EXHAUST DOORS [LRIP 2-10] ECP-0900 - F-35B STOVL HORIZONTAL TAIL RETRO MOD [LRIP 2-12] ECP-1122 - F-35B FS518 LOWER BULKHEAD [LRIP 2-12] ECP-1129 - F-35B NLG Bay Keel [LRIP 2-12]</p> <p>Phase 3: Phase 3 is scheduled for Depot Inductions at Fleet Readiness Center-East (FRC-E) and Ogden Air Logistics Center (OO-ALC). Each induction mod package is intended to be no more than 8,000 installation hours.</p> <p>ECP-0268 - F-35B WING REAR SPAR (LSP)[LRIP 2-9] ECP-0581 - F-35B FORWARD UPPER ENGINE MOUNT [LRIP 4] ECP-0699 - F-35B FS450 BULKHEAD [LRIP 2-9] ECP-0735 - F-35B FS472 BULKHEAD (LSP) [LRIP 2-10] ECP-0853 - F-35B THRUST MOUNT SHEAR WEB [LRIP 2-5] ECP-1178 - F-35B F1 AFT FUEL FLOOR [LRIP 2-13] ECP-1146 - F-35B WING SPAR 10 [LRIP 2-10] FS 236.5 BULKHEAD - DURABILITY TEST CRACK FINDING AT TEARDOWN (ECP-xx) F-35B AFT FUSELAGE RUDDER EARTH BRACKET (ECP-1744) FS 575 BULKHEAD TEARDOWN FINDINGS (ECP-xx) F-35B 2CSH34126 FS 402 Upper Outboard Frame, LHS (CP01: Upper Cap Stiffener Termination at BL -69 (ECP-XX)</p>		

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0592 / F-35 STOVL Series	Modification Number / Title: 1 / F-35 STOVL CORRECTION OF DEFICIENCIES (OSIP 004-19)
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:
<p>PRIORITY VALVE BRACKET FAILURE (ECP-xx) FS 537 UPPER BULKHEAD TEARDOWN FINDINGS (ECP-1757) F-35B 2ASH11083 Inboard Aft Beam (CP01: Lower Flange Joint to Frame 609) (ECP-XX) F-35B WING FRONT SPAR LIMITED LIFE (ECP-1795) F-35B HORIZONTAL TAIL RIB 5 (CP01) LIFE SHORTFALL (ECP-xx) F-35B SHEAR WEB BL60 FS450 TO FS472 (ECP-xx) F-35B 2ASH11075 Forward Mid Keel Beam (CP01: Lower Flange Fastener Hole) (ECP-XX) F-35B FS 507 FRAME LH AND RH - DURABILITY TEST CRACK FINDINGS AT TEARDOWN (ECP-xx) F-35B, VT RUDDER HINGE #2 FITTING LIMITED LIFE - MOD (ECP-1806) F-35 Rudder Hinges Shur-Lok Nut (ECP-XX) F-35B WING REAR SPAR DURABILITY TEST CRACK FINDINGS (ECP-xx) F-35B HORIZONTAL TAIL RIB 5 (CP07) LIFE SHORTFALL (ECP-xx) F-35B SPAR 2 LHS AND RHS DURABILITY TEST CRACK FINDING (ECP-xx) F-35B FS 575 AND FS 594 CENTER ARCH FRAME RETROFIT (ECP-xx)</p> <p>Funding under this OSIP in FY2024 is also required to support Structural Life Limited Mods material, installation labor and associated support costs across two US organic Depots for F-35B inductions. This includes modifications management, depot site support, and depot over and above activities. Over and above tasks consist of supplementary actions necessary to safely return inducted aircraft to flight status prior to completing the modification event.</p> <p>JUSTIFICATION</p> <p>F-35B modification installation hours will increase by 24 percent to 164,887 hours in FY2024. Failure to fund, or a decrease in funds, will result in aircraft overflying projected life limits, resulting in increased field maintenance inspections, increase in unscheduled aircraft downtime due to identified repairs, and potential aircraft grounding. F-35B SLLP2 modifications are projected to complete in FY2034. Delays in funding will put that completion date at risk.</p> <p>FY2024 also sees an increase in SLLP3 NRE. An upfront investment in SLLP3 will pay future dividends. When engineering solutions are complete and ECPs are authorized, the Program can package them for more efficient installation packages.</p> <p>DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES</p> <p>First depot induction for LSP occurred in June 2020 at FRC-E. LSP capability stood up at Ogden Air Logistics Center in January 2022. FRC-E stood up the capability to conduct LSP on two aircraft simultaneously in August 2021.</p>		

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Exhibit P-3a, Individual Modification: PB 2024 Navy										Date: March 2023			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0592 / F-35 STOVL Series					Modification Number / Title: 1 / F-35 STOVL CORRECTION OF DEFICIENCIES (OSIP 004-19)			
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: F-35 STOVL				Modification Type: Capability Improvement				Related RDT&E PEs: 0604800M, 0604840M					
Financial Plan <small>(*) Indicates the modification is being installed organically and no installation funds are required.</small>	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total	
	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	
Procurement													
1.1.1) ECP-0525 FS 402 Upper Frame - NonOrganic <i>Installation 1 of 5</i>	49 / 0.235	12 / 0.436	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	61 / 0.671	
1.1.2) ECP-0661 FS518 Lower Bulkhead - NonOrganic <i>Installation 1 of 5</i>	29 / 0.151	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	29 / 0.151	
1.1.3) ECP-0673 FS496 Bulkhead (LSP) - NonOrganic <i>Installation 1 of 5</i>	42 / 5.200	20 / 2.380	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	62 / 7.580	
1.1.4) ECP-0808 Wing to Body Mid Longeron - NonOrganic <i>Installation 1 of 5</i>	105 / 2.251	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	105 / 2.251	
1.1.5) ECP-0811 Bulkheads-FS236.5 LH & FS236.5 RH - NonOrganic <i>Installation 1 of 5</i>	75 / 0.105	2 / 0.002	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	77 / 0.107	
1.1.6) ECP-0901 Vertical Tail FWD Shear Fitting Bush - NonOrganic <i>Installation 1 of 5</i>	37 / 0.661	5 / 0.089	36 / 0.644	30 / 0.536	- / -	30 / 0.536	7 / 0.125	- / -	- / -	- / -	- / -	115 / 2.055	
1.1.7) ECP-0919 FS402 Upper Outboard Frames - NonOrganic <i>Installation 1 of 5</i>	87 / 1.096	19 / 0.258	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	106 / 1.354	
1.1.8) ECP-1002 Vertical Tail Rudder Hinge 2 Bracket - NonOrganic <i>Installation 1 of 5</i>	50 / 0.450	20 / 0.180	20 / 0.180	17 / 0.153	- / -	17 / 0.153	- / -	- / -	- / -	- / -	- / -	107 / 0.963	
1.1.9) ECP-1034 FS402 & 356 Limited Life Mod - NonOrganic <i>Installation 1 of 5</i>	54 / 0.117	26 / 0.057	26 / 0.057	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	106 / 0.231	
1.1.10) ECP-1066 Wing Spar 9 INBD+A40 - NonOrganic <i>Installation 1 of 5</i>	60 / 0.676	30 / 0.338	22 / 0.237	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	112 / 1.251	
1.1.11) ECP-1268 F-35B FS-496 BULKHEAD (TI-0000-4782) - NonOrganic <i>Installation 1 of 5</i>	- / -	- / -	29 / 0.038	10 / 0.013	- / -	10 / 0.013	7 / 0.009	40 / 0.052	73 / 0.086	- / -	- / -	159 / 0.198	
1.1.12) ECP-1322 F-35B FS-425 BULKHEAD (TI-0000-4844) - NonOrganic <i>Installation 1 of 5</i>	- / -	- / -	40 / 0.072	40 / 0.072	- / -	40 / 0.072	- / -	- / -	- / -	- / -	- / -	80 / 0.144	
1.1.13) ECP-1164 F-35B FS-425 BULKHEAD (TI-0000-4844) - NonOrganic <i>Installation 1 of 5</i>	- / -	- / -	20 / 0.136	2 / 0.014	- / -	2 / 0.014	5 / 0.034	20 / 0.136	- / -	- / -	- / -	47 / 0.320	
1.1.14) ECP-1257 F-35B NACELLE VENT INLETS - NonOrganic <i>Installation 1 of 5</i>	- / -	- / -	13 / 0.049	23 / 0.087	- / -	23 / 0.087	- / -	- / -	- / -	- / -	- / -	36 / 0.136	
2.1.1) ECP-0610 FS518 Lower Bulkhead - NonOrganic <i>Installation 2 of 5</i>	44 / 0.011	3 / 0.008	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	47 / 0.019	
2.1.2) ECP-0624 Aft Boom Closeout Frame - NonOrganic <i>Installation 2 of 5</i>	38 / 1.634	22 / 0.946	14 / 0.622	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	74 / 3.202	
2.1.3) ECP-0629 Aft Fuse Kick Support Frame - NonOrganic	65 / 0.274	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	65 / 0.274	

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0592 / F-35 STOVL Series	Modification Number / Title: 1 / F-35 STOVL CORRECTION OF DEFICIENCIES (OSIP 004-19)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Models of Systems Affected: F-35 STOVL	Modification Type: Capability Improvement	Related RDT&E PEs: 0604800M, 0604840M
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Financial Plan <small>(* Indicates the modification is being installed organically and no installation funds are required.)</small>	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
<i>Installation 2 of 5</i>												
2.1.4) ECP-0678 Lift Fan Exhaust Doors - NonOrganic <i>Installation 2 of 5</i>	35 / 0.844	12 / 0.444	13 / 0.516	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	60 / 1.804
2.1.5) ECP-0900 STOVL Horizontal Tail Retro Mod - NonOrganic <i>Installation 2 of 5</i>	8 / 0.144	27 / 0.486	28 / 0.404	36 / 0.548	- / -	36 / 0.548	- / -	- / -	- / -	- / -	- / -	99 / 1.582
2.1.6) ECP-1122 FS518 LOWER BULKHEAD (LRIP 2-12) - NonOrganic <i>Installation 2 of 5</i>	65 / 0.037	7 / 0.004	23 / 0.203	23 / 0.203	- / -	23 / 0.203	- / -	- / -	- / -	- / -	- / -	118 / 0.447
2.1.7) ECP-1129 NLG Bay Keel - NonOrganic <i>Installation 2 of 5</i>	80 / 0.008	34 / 0.004	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	114 / 0.012
3.1.1) ECP-0268 WING REAR SPAR (LSP) - NonOrganic <i>Installation 3 of 5</i>	47 / 0.068	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	47 / 0.068
3.1.2) ECP-0581 Forward Upper Engine Mount - NonOrganic <i>Installation 3 of 5</i>	15 / 0.130	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	15 / 0.130
3.1.3) ECP-0699 FS450 Bulkhead - NonOrganic <i>Installation 3 of 5</i>	50 / 0.316	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	50 / 0.316
3.1.4) ECP-0735 FS472 Bulkhead (LSP) - NonOrganic <i>Installation 3 of 5</i>	42 / 0.381	20 / 0.187	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	62 / 0.568
3.1.5) ECP-0853 Thrust Mount Shear Web - NonOrganic <i>Installation 3 of 5</i>	32 / 0.336	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	32 / 0.336
3.1.6) ECP-1178 F1 Aft Fuel Floor - NonOrganic <i>Installation 3 of 5</i>	- / -	48 / 0.096	48 / 0.096	14 / 0.002	- / -	14 / 0.002	- / -	- / -	- / -	- / -	- / -	110 / 0.194
3.1.7) ECP-1146 Wing Spar 10 - NonOrganic <i>Installation 3 of 5</i>	46 / 0.370	8 / 0.064	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	54 / 0.434
3.1.8) ECP-XX FS 236.5 BULKHEAD - DURABILITY TEST CRACK FINDING AT TEARDOWN - NonOrganic <i>Installation 3 of 5</i>	- / -	- / -	35 / 0.385	22 / 0.396	- / -	22 / 0.396	22 / 0.242	30 / 0.450	30 / 0.450	20 / 0.300	- / -	159 / 2.223
3.1.9) ECP-1744 F-35B AFT FUSELAGE RUDDER EARTH BRACKET LIFE SHORTFALL - NonOrganic <i>Installation 3 of 5</i>	- / -	- / -	35 / 0.385	22 / 0.396	- / -	22 / 0.396	22 / 0.242	30 / 0.450	30 / 0.450	20 / 0.300	- / -	159 / 2.223
3.1.10) ECP-XX FS 575 BULKHEAD TEARDOWN FINDINGS - NonOrganic <i>Installation 3 of 5</i>	- / -	- / -	35 / 0.385	22 / 0.396	- / -	22 / 0.396	22 / 0.242	30 / 0.450	21 / 0.315	- / -	- / -	130 / 1.788
3.1.11) ECP-XXXE PRIORITY VALVE BRACKET FAILURE - NonOrganic <i>Installation 3 of 5</i>	- / -	- / -	35 / 0.385	22 / 0.396	- / -	22 / 0.396	22 / 0.242	30 / 0.450	30 / 0.450	20 / 0.300	- / -	159 / 2.223
3.1.12) ECP-1757 FS 537 UPPER BULKHEAD TEARDOWN FINDINGS - NonOrganic <i>Installation 3 of 5</i>	- / -	- / -	35 / 0.385	22 / 0.396	- / -	22 / 0.396	22 / 0.242	30 / 0.450	29 / 0.435	- / -	- / -	138 / 1.908
3.1.13) ECP-XXXG SPAR NO. 9 MID-DURABILITY TEST CRACK FINDING AT TEARDOWN - NonOrganic	- / -	- / -	35 / 0.385	22 / 0.396	- / -	22 / 0.396	22 / 0.242	- / -	30 / 0.450	20 / 0.300	- / -	129 / 1.773

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy										Date: March 2023			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0592 / F-35 STOVL Series					Modification Number / Title: 1 / F-35 STOVL CORRECTION OF DEFICIENCIES (OSIP 004-19)			
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: F-35 STOVL			Modification Type: Capability Improvement				Related RDT&E PEs: 0604800M, 0604840M						
Financial Plan <small>(*) Indicates the modification is being installed organically and no installation funds are required.</small>	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
<i>Installation 3 of 5</i>													
3.1.14) ECP-1795 F-35B WING FRONT SPAR LIMITED LIFE - NonOrganic <i>Installation 3 of 5</i>	- / -	- / -	- / -	25 / 0.450	- / -	25 / 0.450	25 / 0.275	30 / 0.450	30 / 0.450	30 / 0.450	12 / 0.180	152 / 2.255	
3.1.15) ECP-XXXI F-35B HORIZONTAL TAIL RIB 5 (CP01) LIFE SHORTFALL - NonOrganic <i>Installation 3 of 5</i>	- / -	- / -	- / -	25 / 0.450	- / -	25 / 0.450	25 / 0.275	30 / 0.450	30 / 0.450	30 / 0.450	36 / 0.540	176 / 2.615	
3.1.16) ECP-XXXJ F-35B SHEAR WEB BL60 FS450 TO FS472 - NonOrganic <i>Installation 3 of 5</i>	- / -	- / -	- / -	25 / 0.450	- / -	25 / 0.450	25 / 0.275	30 / 0.450	30 / 0.450	30 / 0.450	36 / 0.540	176 / 2.615	
3.1.17) ECP-X 2ASH11075 FWD MID KEEL BEAM (CP01 Low Flange Fastener Hole) - NonOrganic <i>Installation 3 of 5</i>	- / -	- / -	- / -	25 / 0.450	- / -	25 / 0.450	25 / 0.275	30 / 0.450	30 / 0.450	30 / 0.450	36 / 0.540	176 / 2.615	
3.1.18) ECP-XXXL F-35B FS 507 FRAME LH/RH - NonOrganic <i>Installation 3 of 5</i>	- / -	- / -	- / -	25 / 0.450	- / -	25 / 0.450	25 / 0.275	30 / 0.450	30 / 0.450	30 / 0.450	36 / 0.540	176 / 2.615	
3.1.19) ECP-1806 2ESH14022 VT Rudder Hinge #2 Fitting Limited Life - MOD - NonOrganic <i>Installation 3 of 5</i>	- / -	- / -	- / -	25 / 0.450	- / -	25 / 0.450	25 / 0.275	30 / 0.450	30 / 0.450	30 / 0.450	36 / 0.540	176 / 2.615	
3.1.20) ECP-XXXN F-35B Rudder Hinges Shur-Lok Nut - NonOrganic <i>Installation 3 of 5</i>	- / -	- / -	- / -	25 / 0.450	- / -	25 / 0.450	25 / 0.275	30 / 0.450	30 / 0.450	30 / 0.450	36 / 0.540	176 / 2.615	
3.1.21) ECP-XX F-35B WING REAR SPAR DURABILITY TEST CRACK FINDINGS - NonOrganic <i>Installation 3 of 5</i>	- / -	- / -	- / -	- / -	- / -	- / -	20 / 0.220	20 / 0.300	20 / 0.300	20 / 0.300	96 / 1.440	176 / 2.560	
3.1.22) ECP-XX F-35B HORIZONTAL TAIL RIB 5 (CP07) LIFE SHORTFALL - NonOrganic <i>Installation 3 of 5</i>	- / -	- / -	- / -	- / -	- / -	- / -	20 / 0.220	20 / 0.300	20 / 0.300	20 / 0.300	96 / 1.440	176 / 2.560	
3.1.23) ECP-XX F-35B SPAR 2 LHS AND RHS DURABILITY TEST CRACK FINDING - NonOrganic <i>Installation 3 of 5</i>	- / -	- / -	- / -	- / -	- / -	- / -	20 / 0.220	20 / 0.300	20 / 0.300	20 / 0.300	96 / 1.440	176 / 2.560	
3.1.24) ECP-XX F-35B FS 575 AND FS 594 CENTER ARCH FRAME RETROFIT - NonOrganic <i>Installation 3 of 5</i>	- / -	- / -	- / -	- / -	- / -	- / -	20 / 0.220	20 / 0.300	20 / 0.300	20 / 0.300	96 / 1.440	176 / 2.560	
4.1.1) ECP-XXXO F-35B FS 450-472 FUEL FLOOR LHS FASTENER HOLE - NonOrganic <i>Installation 4 of 5</i>	- / -	- / -	- / -	- / -	- / -	- / -	35 / 0.385	45 / 0.675	45 / 0.675	40 / 0.600	11 / 0.165	176 / 2.500	
4.1.2) ECP-XXXP F-35B WING REAR SPAR DURABILITY TEST CRACK FINDINGS - NonOrganic <i>Installation 4 of 5</i>	- / -	- / -	- / -	- / -	- / -	- / -	35 / 0.385	45 / 0.675	45 / 0.675	40 / 0.600	11 / 0.165	176 / 2.500	
4.1.3) ECP-XXXQ F-35B PYLON AFT RIB DURABILITY TEST CRACK FINDINGS - NonOrganic <i>Installation 4 of 5</i>	- / -	- / -	- / -	- / -	- / -	- / -	35 / 0.385	45 / 0.675	45 / 0.675	40 / 0.600	31 / 0.465	196 / 2.800	

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Exhibit P-3a, Individual Modification: PB 2024 Navy										Date: March 2023			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0592 / F-35 STOVL Series					Modification Number / Title: 1 / F-35 STOVL CORRECTION OF DEFICIENCIES (OSIP 004-19)			
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: F-35 STOVL				Modification Type: Capability Improvement				Related RDT&E PEs: 0604800M, 0604840M					
Financial Plan <small>(*) Indicates the modification is being installed organically and no installation funds are required.</small>	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
4.1.4) ECP-XXXQ F-35B HORIZONTAL TAIL RIB 5 (CP07) LIFE SHORTFALL - NonOrganic <i>Installation 4 of 5</i>	- / -	- / -	- / -	- / -	- / -	- / -	35 / 0.385	45 / 0.675	45 / 0.675	40 / 0.600	31 / 0.465	196 / 2.800	
4.1.5) ECP-XXXR F-35B SPAR 2 LHS AND RHS DURABILITY TEST CRACK FINDING - NonOrganic <i>Installation 4 of 5</i>	- / -	- / -	- / -	- / -	- / -	- / -	35 / 0.385	45 / 0.675	45 / 0.675	40 / 0.600	31 / 0.465	196 / 2.800	
4.1.6) ECP-XXXS F-35B FS 575 AND FS 594 CENTER ARCH FRAME RETROFIT - NonOrganic <i>Installation 4 of 5</i>	- / -	- / -	- / -	- / -	- / -	- / -	35 / 0.630	45 / 0.675	45 / 0.675	40 / 0.600	31 / 0.465	196 / 3.045	
4.1.7) SLLP-3 TBD (ECP-XX1) - NonOrganic <i>Installation 4 of 5</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	20 / 0.300	20 / 0.300	20 / 0.300	136 / 2.040	196 / 2.940	
4.1.8) SLLP-3 TBD (ECP-XX2) - NonOrganic <i>Installation 4 of 5</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	20 / 0.300	20 / 0.300	20 / 0.300	136 / 2.040	196 / 2.940	
4.1.9) SLLP-3 TBD (ECP-XX3) - NonOrganic <i>Installation 4 of 5</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	20 / 0.300	20 / 0.300	20 / 0.300	136 / 2.040	196 / 2.940	
4.1.10) SLLP-3 TBD (ECP-XX4) - NonOrganic <i>Installation 4 of 5</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	20 / 0.300	20 / 0.300	20 / 0.300	136 / 2.040	196 / 2.940	
4.1.11) SLLP-3 TBD (ECP-XX5) - NonOrganic <i>Installation 4 of 5</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	20 / 0.300	20 / 0.300	20 / 0.300	136 / 2.040	196 / 2.940	
4.1.12) SLLP-3 TBD (ECP-XX6) - NonOrganic <i>Installation 4 of 5</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	20 / 0.300	20 / 0.300	20 / 0.300	136 / 2.040	196 / 2.940	
4.1.13) SLLP-3 TBD (ECP-XX) FY27 - NonOrganic ⁽¹⁾ <i>Installation 4 of 5</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	120 / 1.800	120 / 1.800	936 / 14.040	1,176 / 17.640	
4.1.14) SLLP-3 TBD (ECP-XX) FY28 - NonOrganic ⁽²⁾ <i>Installation 4 of 5</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	120 / 1.800	1,056 / 15.840	1,176 / 17.640	
4.1.15) SLLP-3 TBD (ECP-XX) TC - NonOrganic ⁽³⁾ <i>Installation 4 of 5</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1,176 / 17.640	1,176 / 17.640	
5.1.1) Vehicle Systems - NonOrganic ⁽⁴⁾ <i>Installation 5 of 5</i>	45 / 6.900	44 / 3.500	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	89 / 10.400	
5.1.2) Mission Systems - Organic ⁽¹⁾	45 / 12.550	44 / 5.382	45 / 4.368	32 / 2.622	- / -	32 / 2.622	21 / 0.378	45 / 6.500	45 / 6.500	- / -	- / -	277 / 38.300	
5.1.3) Correction of Deficiencies (B Kits) - Organic ⁽¹⁾	108 / 14.019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	108 / 14.019	
5.1.4) Vehicle Systems (Organic) - Organic ⁽¹⁾	- / -	- / -	45 / 4.553	32 / 3.807	- / -	32 / 3.807	21 / 0.378	45 / 6.390	45 / 6.390	- / -	- / -	188 / 21.518	
Subtotal: Procurement	- / 48.964	- / 14.861	- / 14.485	- / 13.583	- / -	- / 13.583	- / 7.736	- / 25.528	- / 27.526	- / 14.550	- / 71.130	- / 238.363	
Support													
6.1) ILS Program Support (SLLP) ⁽⁵⁾	- / 9.324	- / 16.650	- / 12.645	- / 12.267	- / -	- / 12.267	- / 12.635	- / 12.291	- / 11.926	- / 13.757	- / -	- / 101.495	
6.2) ILS Program Support (SLLP 2 NRE)	- / 4.658	- / 1.575	- / 1.575	- / 1.650	- / -	- / 1.650	- / 3.125	- / -	- / -	- / -	- / -	- / 12.583	

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0592 / F-35 STOVL Series	Modification Number / Title: 1 / F-35 STOVL CORRECTION OF DEFICIENCIES (OSIP 004-19)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Models of Systems Affected: F-35 STOVL	Modification Type: Capability Improvement	Related RDT&E PEs: 0604800M, 0604840M
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Financial Plan <small>(*) Indicates the modification is being installed organically and no installation funds are required.</small>	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
6.3) ILS Program Support (SLLP 3 NRE)	- / -	- / 0.450	- / 0.921	- / 2.898	- / -	- / 2.898	- / 4.966	- / 7.825	- / 8.060	- / 8.463	- / -	- / 33.583
6.4) Mission Systems/Vehicle Systems NRE	- / 0.392	- / 0.126	- / 0.126	- / 0.136	- / -	- / 0.136	- / 1.126	- / 1.257	- / 1.334	- / 1.070	- / -	- / 15.567
6.5) Other Support (LSP Site Support) ⁽⁶⁾	- / 17.331	- / 17.307	- / 17.017	- / 17.213	- / -	- / 17.213	- / 17.520	- / 17.750	- / 17.983	- / 17.520	- / -	- / 59.641
6.6) Other Support (Depot Site Support - Structures) ⁽⁷⁾	- / 17.865	- / 17.708	- / 18.447	- / 18.247	- / -	- / 18.247	- / 18.025	- / 18.758	- / 19.019	- / 19.472	- / 14.611	- / 172.152
Subtotal: Support	- / 29.570	- / 33.816	- / 30.731	- / 32.411	- / -	- / 32.411	- / 37.397	- / 37.881	- / 38.322	- / 40.282	- / 14.611	- / 285.021

Installation												
Installation 1 of 5: GRP: SLLP 2 Phase 1	- / 16.030	- / 30.339	- / 29.344	- / 31.182	- / 0.000	- / 31.182	- / 23.790	- / 15.680	- / 2.720	- / 3.978	- / 3.925	- / 156.988
Installation 2 of 5: GRP: SLLP 2 Phase 2	- / 1.329	- / 2.441	- / 10.696	- / 17.384	- / 0.000	- / 17.384	- / 3.160	- / 1.636	- / -	- / -	- / 0.000	- / 26.646
Installation 3 of 5: GRP: SLLP 2 Phase 3	- / 2.817	- / 0.607	- / 13.487	- / 15.592	- / 0.000	- / 15.592	- / 29.891	- / 41.258	- / 55.388	- / 21.416	- / 98.602	- / 269.058
Installation 4 of 5: GRP: SLLP 3	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 10.500	- / 28.092	- / 193.762	- / 232.354
Installation 5 of 5: Vehicle Systems	- / 138.060	- / 17.987	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 46.047
Subtotal: Installation	- / 58.236	- / 41.374	- / 43.527	- / 54.158	- / -	- / 54.158	- / 56.841	- / 58.574	- / 68.608	- / 53.486	- / 296.289	- / 731.093

Total												
Total Cost (Procurement + Support + Installation)	136.770	90.051	88.743	100.152	0.000	100.152	101.974	121.983	134.456	108.318	372.030	1,254.477

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0592 / F-35 STOVL Series	Modification Number / Title: 1 / F-35 STOVL CORRECTION OF DEFICIENCIES (OSIP 004-19)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Installation 1 of 5: GRP: SLLP 2 Phase 1

Manufacturer Information

Manufacturer Name: Lockheed Martin	Manufacturer Location: Fort Worth, TX
Administrative Leadtime (in Months): 5	Production Leadtime (in Months): 24

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates	Feb 2022	Feb 2023	Feb 2024	Feb 2025	Feb 2026	Feb 2027	
Delivery Dates	Feb 2024	Feb 2025	Feb 2026	Feb 2027	Feb 2028	Feb 2029	

Installation Information

Method of Implementation: Contract, Depot Activities:: Installation Name: SLLP 2 Phase 1

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	49 / 16.030	280 / 30.339	259 / 29.344	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	588 / 75.713
FY 2022	- / -	- / -	- / -	134 / 31.182	0 / 0.000	134 / 31.182	- / -	- / -	- / -	- / -	0 / 0.000	134 / 31.182
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	206 / 23.790	- / -	- / -	- / -	0 / 0.000	206 / 23.790
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	122 / 15.680	- / -	- / -	0 / 0.000	122 / 15.680
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	19 / 2.720	- / -	0 / 0.000	19 / 2.720
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	60 / 3.978	0 / 0.000	60 / 3.978
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	73 / 3.925	73 / 3.925
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	49 / 16.030	280 / 30.339	259 / 29.344	134 / 31.182	0 / 0.000	134 / 31.182	206 / 23.790	122 / 15.680	19 / 2.720	60 / 3.978	73 / 3.925	1,202 / 156.988

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	49	-	103	93	84	13	91	90	65	-	45	45	44	25	58	60	63	18	35	35	34	3	5	5	6	15	15	15	15	73	1,202
Out	19	2	10	33	23	116	71	160	90	64	-	45	45	44	25	58	60	63	18	35	35	34	3	5	5	-	15	15	15	94	1,202

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0592 / F-35 STOVL Series	Modification Number / Title: 1 / F-35 STOVL CORRECTION OF DEFICIENCIES (OSIP 004-19)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Installation 2 of 5: GRP: SLLP 2 Phase 2

Manufacturer Information

Manufacturer Name: Lockheed Martin	Manufacturer Location: Fort Worth, TX
Administrative Leadtime (in Months): 5	Production Leadtime (in Months): 20

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates	Feb 2022	Feb 2023	Feb 2024				
Delivery Dates	Nov 2023	Nov 2024	Nov 2025				

Installation Information

Method of Implementation: Contract, Depot Activities:: Installation Name: SLLP 2 Phase 2

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	25 / 1.329	38 / 2.441	272 / 10.696	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	335 / 14.466
FY 2022	- / -	- / -	- / -	105 / 7.384	0 / 0.000	105 / 7.384	- / -	- / -	- / -	- / -	0 / 0.000	105 / 7.384
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	78 / 3.160	- / -	- / -	- / -	0 / 0.000	78 / 3.160
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	59 / 1.636	- / -	- / -	0 / 0.000	59 / 1.636
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	25 / 1.329	38 / 2.441	272 / 10.696	105 / 7.384	0 / 0.000	105 / 7.384	78 / 3.160	59 / 1.636	- / -	- / -	0 / 0.000	577 / 26.646

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	25	-	14	13	11	32	86	87	67	-	34	34	37	-	24	26	28	-	19	20	20	-	-	-	-	-	-	-	-	-	-
Out	2	-	10	8	6	40	32	86	87	64	-	34	34	37	-	24	26	28	-	19	20	20	-	-	-	-	-	-	-	-	-

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0592 / F-35 STOVL Series	Modification Number / Title: 1 / F-35 STOVL CORRECTION OF DEFICIENCIES (OSIP 004-19)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Installation 3 of 5: GRP: SLLP 2 Phase 3

Manufacturer Information

Manufacturer Name: Lockheed Martin	Manufacturer Location: Fort Worth, TX
Administrative Leadtime (in Months): 5	Production Leadtime (in Months): 24

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates	Feb 2022	Feb 2023	Feb 2024	Feb 2025	Feb 2026	Feb 2027	Feb 2028
Delivery Dates	Feb 2024	Feb 2025	Feb 2026	Feb 2027	Feb 2028	Feb 2029	Feb 2030

Installation Information

Method of Implementation: Contract, Depot Activities:: Installation Name: SLLP 2 Phase 3

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	13 / 2.817	3 / 0.607	216 / 3.487	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	232 / 6.911
FY 2022	- / -	- / -	- / -	76 / 15.592	0 / 0.000	76 / 15.592	- / -	- / -	- / -	- / -	0 / 0.000	76 / 15.592
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	258 / 29.891	- / -	- / -	- / -	0 / 0.000	258 / 29.891
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	321 / 41.258	- / -	- / -	0 / 0.000	321 / 41.258
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	387 / 55.388	- / -	0 / 0.000	387 / 55.388
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	410 / 21.416	30 / 6.375	440 / 27.791
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	460 / 51.191	460 / 51.191
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	370 / 36.768	370 / 36.768
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	606 / 4.268	606 / 4.268
Total	13 / 2.817	3 / 0.607	216 / 3.487	76 / 15.592	0 / 0.000	76 / 15.592	258 / 29.891	321 / 41.258	387 / 55.388	410 / 21.416	1,466 / 98.602	3,150 / 269.058

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	13	2	1	-	-	52	60	60	44	-	23	27	26	-	83	88	87	-	98	108	115	-	147	143	97	-	150	150	110	1,466	3,150
Out	3	2	4	2	-	13	52	60	60	36	-	23	27	26	-	83	88	87	-	90	101	116	7	154	143	-	-	150	150	1,673	3,150

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0592 / F-35 STOVL Series	Modification Number / Title: 1 / F-35 STOVL CORRECTION OF DEFICIENCIES (OSIP 004-19)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Installation 4 of 5: GRP: SLLP 3

Manufacturer Information

Manufacturer Name: Lockheed Martin	Manufacturer Location: Fort Worth, TX
Administrative Leadtime (in Months): 5	Production Leadtime (in Months): 20

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates				Feb 2025	Feb 2026	Feb 2027	Feb 2028
Delivery Dates				Nov 2026	Nov 2027	Nov 2028	Nov 2029

Installation Information

Method of Implementation: Contract, Depot Activities:: Installation Name: SLLP 3

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	210 / 10.500	- / -	0 / 0.000	210 / 10.500
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	390 / 28.092	0 / 0.000	390 / 28.092
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	510 / 28.000	510 / 28.000
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	600 / 50.080	600 / 50.080
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4,130 / 115.682	4,130 / 115.682
Total	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	210 / 10.500	390 / 28.092	5,240 / 193.762	5,840 / 232.354

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	72	72	66	-	155	160	75	5,240	5,840
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	72	72	11	-	155	160	5,370	5,840

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0592 / F-35 STOVL Series	Modification Number / Title: 1 / F-35 STOVL CORRECTION OF DEFICIENCIES (OSIP 004-19)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Installation 5 of 5: Vehicle Systems

Manufacturer Information

Manufacturer Name: Lockheed Martin	Manufacturer Location: Fort Worth, TX
Administrative Leadtime (in Months): 2	Production Leadtime (in Months): 20

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates	Nov 2021						
Delivery Dates	Apr 2022						

Installation Information

Method of Implementation: Contract, Depot Activities:: Installation Name: Vehicle Systems

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	45 / 38.060	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	45 / 38.060
FY 2022	- / -	44 / 7.987	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	44 / 7.987
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	45 / 38.060	44 / 7.987	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	89 / 46.047

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot	
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4			
In	45	-	-	-	44	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	89
Out	-	-	-	-	45	44	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	89

Footnotes:
 (1) COMBINATION OF 6 SEPARATE ECPs TO BE BROKEN OUT ONCE DETERMINED. INDIVIDUAL ECP FY27: 20/.300, FY28: 20/.300, TC: 156/2.340
 (2) COMBINATION OF 6 SEPARATE ECPs TO BE BROKEN OUT ONCE DETERMINED. INDIVIDUAL ECP FY28: 20/.300, TC: 176/2.640

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0592 / F-35 STOVL Series	Modification Number / Title: 1 / F-35 STOVL CORRECTION OF DEFICIENCIES (OSIP 004-19)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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(3) COMBINATION OF 6 SEPARATE ECPs TO BE BROKEN OUT ONCE DETERMINED. INDIVIDUAL ECP TC: 196/2.94

(4) Cost to complete and quantity to complete vary from year to year depending on number ECPs that have been approved.

(5) Integrated Logistics Support consists of recurring modification management support and depot planning for USMCs portion of the enterprise cost share; cost remain steady through the FYDP to continue NRE efforts on SLLP3 and other correction of deficiency modifications.

(6) Laser Shock Peening (LSP) for the USMC F-35B models requires contractor support to operate the equipment at FRC-E and Ogden Air Logistics Complex.; funding required to obtain the manpower since it can't be operated organically and equipment is owned by the contractor.

(7) This other support is required to facilitate the support staff necessary to incorporate these modifications; this cost is based on the percentage of USMC inductions compared to the rest of the inductions at the Organic depot.

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0592 / F-35 STOVL Series	Modification Number / Title: 2 / F-35 STOVL PROPULSION (OSIP 010-20)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	16.231	2.580	7.400	8.556	0.000	8.556	14.623	15.525	9.651	2.883	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	16.231	2.580	7.400	8.556	0.000	8.556	14.623	15.525	9.651	2.883	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	16.231	2.580	7.400	8.556	0.000	8.556	14.623	15.525	9.651	2.883	Continuing	Continuing

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

This Propulsion Program is established for the correction of engine related readiness degraders impacting F-35B Reliability Maintainability and Availability (RM&A), production deficiencies, obsolescence, and reduction of life-cycle costs. These modifications will be accomplished by field or depot retrofit and implemented to coincide with resources and aircraft availability. To meet the goal of increasing readiness, the propulsion systems must be modified as critical RM&A issues are identified. The reliability and readiness initiatives included in the Propulsion OSIP are projected to have a significant positive impact to the F-35B STOVL F-135 engine. Funds will be used to manage, prepare, process and incorporate Engineering Change Proposals.

Specifically, this OSIP will implement hardware and software upgrades necessary to maintain credible and capable F-35B STOVL F-135 engines. These upgrades include Pigtail removal/FIVV Bushing Replacement (ECP 21ZA035), Hybrid Stator 2 w/ IDAS (ECP 13ZA393G), 2/3 Scavenge Tube Durability (ECP 12ZW431), Harness Bracket Mistake Proofing (ECP 20ZA056), No. 5, No. 3 Idler & LSFP gear retrofit (ECP 17ZA083), Lockwireless Fitting - STOVL Fan Power ECP (09ZA355B), Exciter Reliability Improvement (ECP 11ZZ025), F135 G2.4 V9.4C Ice Protection System (IPS) Controller (ECP 16ZA014A), STOVL Adaptors 4136900's (ECP 12ZS014), Gearbox MAD (Multi-Attitude-Deaerator) Redesign (ECP 14ZW342D), F135 Nosecone Heater and FIC Harness Removal w/ inline adapter (ECP 15ZA103), Module Nozzle Sync Ring Tilt (ECP 17ZA267), F135 MFTV Transfer EHSV Redesign (ECP 07ZZ032), MFTV Bellows Redesign (ECP 17ZZ033), N1 Probe Adaptor and Sleeve Redesign (ECP 20ZA028), F135 HPC Sync Ring Bumper Fastener Redesign (ECP 21ZA289D), Anti Rotation Pin Durability & Periphery Seal Disengagement (ECP 11ZR004), HPT Forward Cover Plate/Retaining Ring Redesign (ECP TBD), Lift Fan Clutch Hydraulic Control Unit Flowmeter (ECP 14ZR011), Lift Fan Increased Capability Drive Shaft (ECP 11ZR043), and CP61&CP64 Tube Damage Tolerance Improvement (ECP 19ZA159)

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Exhibit P-3a, Individual Modification: PB 2024 Navy										Date: March 2023			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0592 / F-35 STOVL Series						Modification Number / Title: 2 / F-35 STOVL PROPULSION (OSIP 010-20)			
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: F-35 STOVL				Modification Type: Engine Related Modifications				Related RDT&E PEs: 0604800M, 0604840M					
Financial Plan <small>(*) Indicates the modification is being installed organically and no installation funds are required.</small>	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total	
	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	
Procurement													
1.1.1) ECP 21ZA035 Pigtail removal/FIVV Bushing Replacement - NonOrganic <i>Installation 1 of 2</i>	- / -	- / -	- / -	13 / 0.325	- / -	13 / 0.325	11 / 0.275	5 / 0.125	- / -	- / -	179 / 4.475	208 / 5.200	
1.1.2) ECP 13ZA393G Hybrid Stator 2 w/ IDAS - NonOrganic <i>Installation 1 of 2</i>	- / -	- / -	- / -	5 / 0.560	- / -	5 / 0.560	29 / 3.248	35 / 3.920	34 / 3.808	- / -	102 / 11.424	205 / 22.960	
1.1.3) ECP 12ZW431 2/3 Scavenge Tube Durability - NonOrganic <i>Installation 1 of 2</i>	- / -	- / -	- / -	38 / 0.190	- / -	38 / 0.190	45 / 0.225	47 / 0.235	47 / 0.235	4 / 0.020	- / -	181 / 0.905	
1.1.4) ECP 20ZA056 Harness Bracket Mistake Proofing - NonOrganic <i>Installation 1 of 2</i>	- / -	- / -	29 / 0.029	32 / 0.032	- / -	32 / 0.032	34 / 0.034	40 / 0.040	40 / 0.040	- / -	14 / 0.014	189 / 0.189	
1.1.5) ECP 17ZA083 No. 5, No. 3 Idler & LSFP gear retrofit - NonOrganic <i>Installation 1 of 2</i>	- / -	3 / 0.048	3 / 0.048	3 / 0.048	- / -	3 / 0.048	3 / 0.048	- / -	- / -	- / -	- / -	12 / 0.192	
1.1.6) ECP 09ZA355B Lockwireless Fitting STOVL (Unit) - NonOrganic <i>Installation 1 of 2</i>	- / -	36 / 0.252	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	36 / 0.252	
1.1.7) ECP 09ZA355B Lockwireless Fitting STOVL (Depot) - NonOrganic <i>Installation 1 of 2</i>	- / -	23 / 0.230	26 / 0.260	7 / 0.070	- / -	7 / 0.070	- / -	- / -	- / -	- / -	17 / 0.170	73 / 0.730	
1.1.8) ECP 11ZZ025 Exciter Reliability Improvement - NonOrganic <i>Installation 1 of 2</i>	- / -	2 / 0.072	9 / 0.324	13 / 0.468	- / -	13 / 0.468	15 / 0.540	21 / 0.756	5 / 0.180	- / -	4 / 0.144	69 / 2.484	
1.1.9) ECP 12ZS014 STOVL Adaptors 4136900's - NonOrganic <i>Installation 1 of 2</i>	- / -	- / -	- / -	3 / 0.042	- / -	3 / 0.042	4 / 0.056	6 / 0.084	5 / 0.070	- / -	3 / 0.042	21 / 0.294	
1.1.10) ECP 15ZA103 Nosecone Heater and FIC Harness Removal w/ inline adapter - NonOrganic <i>Installation 1 of 2</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	161 / 0.966	161 / 0.966	
1.1.12) ECP 07ZZ032 F135 MFTV Transfer EHSV Redesign - NonOrganic <i>Installation 1 of 2</i>	- / -	17 / 0.017	17 / 0.017	17 / 0.017	- / -	17 / 0.017	17 / 0.017	14 / 0.014	- / -	- / -	36 / 0.036	118 / 0.118	
1.1.13) ECP 17ZZ033 MFTV Bellows Redesign - NonOrganic <i>Installation 1 of 2</i>	- / -	18 / 0.234	18 / 0.234	18 / 0.234	- / -	18 / 0.234	18 / 0.234	12 / 0.156	- / -	- / -	- / -	84 / 1.092	
1.1.14) ECP 20ZA028 N1 Probe Adapter and Sleeve Redesign - NonOrganic <i>Installation 1 of 2</i>	- / -	- / -	- / -	18 / 0.018	- / -	18 / 0.018	21 / 0.021	24 / 0.024	26 / 0.026	- / -	118 / 0.118	207 / 0.207	
1.1.18) ECP 19ZA159 CP61&CP64 Tube Damage Tolerance Improvement - NonOrganic <i>Installation 1 of 2</i>	- / -	- / -	- / -	- / -	- / -	- / -	18 / 0.072	17 / 0.068	18 / 0.072	15 / 0.060	68 / 0.272	136 / 0.544	
1.2.1) Installation Kit/NonRecurring - NonOrganic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.679	- / 1.679	

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Exhibit P-3a, Individual Modification: PB 2024 Navy										Date: March 2023			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0592 / F-35 STOVL Series					Modification Number / Title: 2 / F-35 STOVL PROPULSION (OSIP 010-20)			
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: F-35 STOVL			Modification Type: Engine Related Modifications				Related RDT&E PEs: 0604800M, 0604840M						
Financial Plan <small>(*) Indicates the modification is being installed organically and no installation funds are required.</small>	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
<i>Installation 1 of 2</i>													
1.1.11) ECP 17ZA267 Module Nozzle Sync Ring Tilt - Organic ^(*)	- / -	- / -	- / -	1 / 0.013	- / -	1 / 0.013	1 / 0.013	1 / 0.013	1 / 0.013	1 / 0.013	7 / 0.091	12 / 0.156	
1.1.16) ECP 11ZR004 Anti Rotation Pin Durability & Periphery Seal Disengagement - Organic ^(*)	- / -	14 / 0.014	26 / 0.026	29 / 0.029	- / -	29 / 0.029	33 / 0.033	14 / 0.014	- / -	- / -	- / -	116 / 0.116	
2.1.1) Propulsion B Kits - NonOrganic <i>Installation 2 of 2</i>	123 / 14.085	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	123 / 14.085	
2.1.3) ECP 14ZW342D Gearbox MAD Redesign for Delivered Engines - NonOrganic <i>Installation 2 of 2</i>	- / -	10 / 0.040	10 / 0.040	10 / 0.040	- / -	10 / 0.040	10 / 0.040	10 / 0.040	10 / 0.040	10 / 0.040	- / -	70 / 0.280	
2.1.4) ECP 14ZR011 Lift Fan Clutch Hydraulic Control Unit Flowmeter - NonOrganic <i>Installation 2 of 2</i>	- / -	- / -	15 / 1.470	15 / 1.470	- / -	15 / 1.470	15 / 1.470	15 / 1.470	15 / 1.470	16 / 1.568	- / -	91 / 8.918	
2.1.5) ECP 11ZR043 Lift Fan Increased Capability Drive Shaft - Organic ^(*)	- / -	2 / 0.816	8 / 3.264	9 / 3.672	- / -	9 / 3.672	16 / 6.528	16 / 6.528	5 / 2.040	- / -	- / -	56 / 22.848	
2.2.1) Installation Equipment/NonRecurring - Organic ^(*)	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 3.202	- / 3.202	
<i>Subtotal: Procurement</i>	- / 14.085	- / 1.723	- / 5.712	- / 7.228	- / -	- / 7.228	- / 12.854	- / 13.487	- / 7.994	- / 1.701	- / 22.633	- / 87.417	
Support													
3.1) Other Support	- / 0.606	- / 0.059	- / 0.325	- / 0.579	- / -	- / 0.579	- / 0.565	- / 0.567	- / 0.226	- / 0.092	Continuing	Continuing	
<i>Subtotal: Support</i>	- / 0.606	- / 0.059	- / 0.325	- / 0.579	- / -	- / 0.579	- / 0.565	- / 0.567	- / 0.226	- / 0.092	Continuing	Continuing	
Installation													
<i>Installation 1 of 2:</i> GRP: Propulsion Install Kits	- / -	- / -	- / 1.270	- / 0.546	- / 0.000	- / 0.546	- / 1.001	- / 1.268	- / 1.228	- / 0.887	- / 4.070	- / 10.270	
<i>Installation 2 of 2:</i> GRP: Propulsion Install Equipment	- / 1.540	- / 0.798	- / 0.093	- / 0.203	- / 0.000	- / 0.203	- / 0.203	- / 0.203	- / 0.203	- / 0.203	- / 0.211	- / 3.657	
<i>Subtotal: Installation</i>	- / 1.540	- / 0.798	- / 1.363	- / 0.749	- / -	- / 0.749	- / 1.204	- / 1.471	- / 1.431	- / 1.090	- / 4.281	- / 13.927	
Total													
Total Cost (Procurement + Support + Installation)	16.231	2.580	7.400	8.556	0.000	8.556	14.623	15.525	9.651	2.883	Continuing	Continuing	

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
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ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Installation 1 of 2: GRP: Propulsion Install Kits

Manufacturer Information

Manufacturer Name: TBD ⁽⁸⁾	Manufacturer Location: TBD
Administrative Leadtime (in Months): 3	Production Leadtime (in Months): 10

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates	Dec 2021	Dec 2022	Dec 2023	Dec 2024	Dec 2025	Dec 2026	Dec 2027
Delivery Dates	Oct 2022	Oct 2023	Oct 2024	Oct 2025	Oct 2026	Oct 2027	Oct 2028

Installation Information

Method of Implementation: Various:: Installation Name: Propulsion Install Kits

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	99 / 1.270	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	99 / 1.270
FY 2023	- / -	- / -	- / -	102 / 0.546	0 / 0.000	102 / 0.546	- / -	- / -	- / -	- / -	0 / 0.000	102 / 0.546
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	167 / 1.001	- / -	- / -	- / -	0 / 0.000	167 / 1.001
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	215 / 1.268	- / -	- / -	0 / 0.000	215 / 1.268
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	221 / 1.228	- / -	0 / 0.000	221 / 1.228
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	175 / 0.887	0 / 0.000	175 / 0.887
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	19 / 0.140	19 / 0.140
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	541 / 3.930	541 / 3.930
Total	- / -	- / -	99 / 1.270	102 / 0.546	0 / 0.000	102 / 0.546	167 / 1.001	215 / 1.268	221 / 1.228	175 / 0.887	560 / 4.070	1,539 / 10.270

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	24	24	26	25	24	24	26	28	39	40	43	45	50	52	55	58	52	54	56	59	41	42	45	47	560	1,539
Out	-	-	-	-	-	24	24	26	25	24	24	26	28	39	40	43	45	50	52	55	58	52	54	56	59	41	42	45	47	560	1,539

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
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ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Installation 2 of 2: GRP: Propulsion Install Equipment

Manufacturer Information

Manufacturer Name: TBD ⁽⁹⁾	Manufacturer Location: TBD
Administrative Leadtime (in Months): 3	Production Leadtime (in Months): 10

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates	Dec 2021	Dec 2022	Dec 2023	Dec 2024	Dec 2025	Dec 2026	Dec 2027
Delivery Dates	Oct 2022	Oct 2023	Oct 2024	Oct 2025	Oct 2026	Oct 2027	Oct 2028

Installation Information

Method of Implementation: Various:: Installation Name: Propulsion Install Equipment

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	85 / 1.540	38 / 0.798	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	123 / 2.338
FY 2022	- / -	- / -	10 / 0.093	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	10 / 0.093
FY 2023	- / -	- / -	- / -	25 / 0.203	0 / 0.000	25 / 0.203	- / -	- / -	- / -	- / -	0 / 0.000	25 / 0.203
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	25 / 0.203	- / -	- / -	- / -	0 / 0.000	25 / 0.203
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	25 / 0.203	- / -	- / -	0 / 0.000	25 / 0.203
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	25 / 0.203	- / -	0 / 0.000	25 / 0.203
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	25 / 0.203	0 / 0.000	25 / 0.203
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	26 / 0.211	26 / 0.211
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	85 / 1.540	38 / 0.798	10 / 0.093	25 / 0.203	0 / 0.000	25 / 0.203	25 / 0.203	25 / 0.203	25 / 0.203	25 / 0.203	26 / 0.211	284 / 3.657

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	85	9	9	10	10	2	2	3	3	5	6	7	7	5	6	7	7	5	6	7	7	5	6	7	7	5	6	7	7	26	284
Out	85	9	9	10	10	2	2	3	3	5	6	7	7	5	6	7	7	5	6	7	7	5	6	7	7	5	6	7	7	26	284

Footnotes:
⁽⁸⁾ A Kit install quantities, and contract times are a roll-up based upon general induction of aircraft in each year. Each kit contains a range of ECP's depending on the aircraft LRIP configuration.
⁽⁹⁾ B Kit install quantities, and contract times are a roll-up based upon general induction of aircraft in each year. Each kit contains a range of ECP's depending on the aircraft LRIP configuration.

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0592 / F-35 STOVL Series	Modification Number / Title: 3 / F-35 STOVL BLOCK 4 UPGRADE (OSIP 012-20)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	20.140	59.060	87.923	198.713	0.000	198.713	152.560	162.896	142.675	133.133	85.251	1,042.351
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	20.140	59.060	87.923	198.713	0.000	198.713	152.560	162.896	142.675	133.133	85.251	1,042.351
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	20.140	59.060	87.923	198.713	0.000	198.713	152.560	162.896	142.675	133.133	85.251	1,042.351

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

This Block 4 Program is established to retrofit advanced capabilities on the F-35 to increase the capability and lethality of the weapon system to meet current and future threats. Funding is required to upgrade Low Rate Initial Production (LRIP) to a Lot 19 Production hardware configuration. Block 4 incorporation will not follow the traditional Block upgrade approach; instead, modifications will be performed through a Continuous Capability Development and Delivery Concept that entails upgrades to both hardware and software on fielded aircraft on a yearly base. The current modification incorporation schedule lags production by one year. The program will maintain that schedule for subsequent lots pending part qualification dates.

The Block 4 program is a series of 66+ individual required capabilities. Hardware necessary to enable capability will be incorporated in aircraft production aircraft throughout aircraft production Lots 15-19. Hardware retrofit ECPs are required to deliver each Lot's capabilities to fielded aircraft. The program refers to the combination of ECPs required to match a Lot 15 production aircraft's full set of capabilities as a Lot 15 hardware retrofit kit. Each lot configuration from the production line is a new full set of explicit and individual capabilities and associated Retrofit Engineering Change Proposals. The final set of the 66+ capabilities for Block 4 are enabled by installing a Lot 19 hardware retrofit kit. As an example, a Lot 14 production aircraft needs a Lot 15 kit, a Lot 16 kit, a Lot 17 kit, and a Lot 19 kit to deliver all 66+ capabilities, but each individual kit delivers capability.

This effort includes, but not limited to the below capabilities and associated modification install timelines:

FY2024 (Lot 15)

Technical Refresh 3 (TR-3), Next Generation Distributed Aperture System (Next Gen DAS), Cooling Mod, High Efficiency Low Voltage Power Supply, (HE-LVPS), Electronic Warfare Rack 2 IBA, Radio Frequency Converter (RFC), and Fuel Conduit Mod.

- 1) ECP 1609 - TR-3 integrates new integrated core processor (ICP), Panoramic Cockpit Display, and Aircraft Memory System to meet Block 4 processing, memory, and throughput requirements.
- 2) ECP 1610 - Next Gen DAS replaces current DAS due to sensor reliability while increasing performance to provide larger pixel focal plane array and higher operating temperatures.
 - Cooling Upgrade Phase 1 increases cooling capacity to support electronic warfare growth and addition of Full Motion Video (FMV).
 - HE-LVPS required for EW mods increased power flexibility.
 - Rack 2 IBA and RFC replace legacy EW racks to accommodate modernized EW modules
- 3) ECP 1323 - Fuel Conduit Mod enables alternate wire routing for Block 4 upgrades for Pre-Lot 15 Aircraft to eliminate the need to route wiring through the dead zone and accommodates future wiring needs

FY2025 (Lot 16)

Advanced Communication, Navigation, Identification Processor (ACNIP) and CNI Avionics Interface Controller (CAIC)

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
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ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:
<ul style="list-style-type: none"> - ACNIP and CAIC provide increased processing capabilities to support Concurrent Multi-Netting (CMN-4) capabilities - Band 3/4 Array Electronic Modules- replaces legacy AEMs to enhance Electronic Warfare capability <p>FY2027 (Lot 17) Modernized Electronic Warfare Controller (M-EWC), and Modernized Electronic Warfare Processor (M-EWP), EW Group 2 , Domain Controller Radar Control Processor (DCRCP), and Cooling Upgrade Phase 2</p> <ul style="list-style-type: none"> - M-EWC/EWP increases 8-core processors (SDD) to 32-core, providing more than 3 times the processing performance for running advance algorithms and supporting the transition from 12 Receivers (SDD) to 20 Receivers - EW Group 2 adds technology to address the Advancing Threats, to detect and counter the LPI Emitter ; includes , Aircraft Interface Module (ACIF), M-Quad Upconverter (M-QUC), M-Quad Tuner (M-QTM), M-Digital Channelized Receiver (DCR), M-DCR and Techniques Receiver (DCRTG), M-Analog-to-Digital Converter (ADC), - DCRCP enables increased processing, memory, and throughput - Cooling Upgrade Phase 2 increases cooling capacity to support electronic warfare growth and Full Motion Video (FMV) <p>FY2027 (Lot 19) Advanced Multi Channel Transceiver Receiver (AMCTR), Integrated CNI (ICNI) Rack 3A and 3B Backplane, Full Motion Video, Embedded GPS and Inertial Navigation System (EGI), Band 2/3/4/5 Electronic Warfare, and Countermeasures Controller (CMC), (EW) Hardware (HW) and EW Group 2 HW</p> <ul style="list-style-type: none"> - AMCTR provides MIDS Modernization Increment 1 (MMI) Concurrent Multi-Netting (CMN) and Concurrent Contention Receive (CCR) capabilities - Full Motion Video adds the capability to receive encrypted and unencrypted full motion video and still imagery from Operational Facilities and Remote Video Terminals - ICNI Rack 3A and 3B Backplane - Meet C2D2/ Block 4 processing, memory, and throughput requirements - EGI is a hardware enabler for M-Code/Automatic Dependent Surveillance-Broadcast/Required Navigation Performance/area navigation capabilities - Band 2/3/4/5 EW HW provides Band 2&5 RWR functionality by adding Band 2 Nose Landing Gear Door (NLGD) Aperture, Band 3/4 NLGD Aperture, Band 2/3/4 Array Electronic Module (AEM), Band 5 MADL AAA and AIU, and Band 5 IM - EW Group 2 HW includes Wideband Receiver (WBR), Wideband Notch Filter Module (NFM), Band 2/5 Switch Matrix Module (SMM), M-Radio Frequency Converter (M-RFC), and High Voltage Power Supply (HVPS) - adds technology to address the Advancing Threats, to detect and counter the LPI Emitter while providing Band 5 RWR functionality. - CMC adds capability for smart programmable dispenser capability <p>Note: TR-3/Block 4 retrofit installations were pushed one year later than production to account for manufacturing ramp rate and technical risk associated with hardware availability. Manufacturing capacity is projected to be 70 percent in the first year of procurement and 100 percent in subsequent years for all lots. In FY24, the full manufacturing capacity for Lots 15-17 will be available while 70 percent of the 225 shipsets per year of manufacturing capability for Lot 19 will be available.</p> <p>Integrated Logistics Support (ILS): ILS is required for program support and to support changes driven by Block 4 upgrades to fielded systems to include ALIS, Training (full motion simulator), JRE impacts, and support equipment.</p> <p>In FY2024, program will purchase equipment necessary to begin upgrading the Pilot Training Devices (PTDs) to match the retrofitted Block 4 aircraft. Training system upgrades will ensure the simulator matches the aircraft increasing the effectivity of the training reducing aircraft flight hours. Additionally, training on a simulator that does not match the aircraft can lead to potential mishaps in aircraft operations</p> <p>Unit, organic depot, or contractor field teams will complete the modification installs.</p> <p>DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:</p> <p>FY2024 continues the progression of the Block 4 retrofit program kit purchases. FY2022 was the first year of procurement for Lot 15/Tech Refresh 3 (TR-3) Block 4 capabilities with TR-3 deliveries planned for FY2024. In FY2023, the program began purchasing Lot 16 and Lot 17 retrofit kits to deliver additional Block 4 capabilities. In FY24, the program plans to begin kit procurements for Lot 19 hardware while continuing to buy Lot 15, 16, and 17 kits. The program plans to complete TR-3 kit procurements for F-35B in 2024. Additionally, the program will begin installing Tech Refresh 3 (TR-3) kits in calendar year 2024.</p>		

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0592 / F-35 STOVL Series	Modification Number / Title: 3 / F-35 STOVL BLOCK 4 UPGRADE (OSIP 012-20)
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:

JUSTIFICATION:

FY24 reflects an increase for Block 4. The program will achieve the maximum production capacity of 216 shipsets per year for Lot 17 in 2024. The kit rate for Lot 19 will start at 70 percent of capacity in 2024 before achieving 225 shipsets per year in 2025. FY2024 will include simultaneous purchases of Lot 15, Lot 16, Lot 17, and Lot 19 retrofit kits in order to release capability to the field as quickly as prudently possible. The Program will complete Lot 15 (TR-3) kit procurements in 2024 while installation of the kits purchased in 2022 will begin. Training system upgrade kit procurements will also begin in 2024.

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy										Date: March 2023			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0592 / F-35 STOVL Series					Modification Number / Title: 3 / F-35 STOVL BLOCK 4 UPGRADE (OSIP 012-20)			
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: F-35 STOVL			Modification Type: Capability Improvement				Related RDT&E PEs: 0604800M, 0604840M						
Financial Plan <small>(*) Indicates the modification is being installed organically and no installation funds are required.</small>	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total	
	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	
Procurement													
1.1.1) Archived Mods - Organic ^(*)	63 / 8.722	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	63 / 8.722	
1.1.2) Mag Retainer Plate/ Rack 2 IBA (Block 4 B Kits) - Organic ^(*)	44 / 0.830	19 / 0.360	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	63 / 1.190	
1.1.3) Lot 15 TR3/DAS (Block 4 B Kits) - NonOrganic <i>Installation 1 of 4</i>	- / -	25 / 50.866	29 / 62.959	30 / 72.500	- / -	30 / 72.500	- / -	- / -	- / -	- / -	- / -	84 / 186.325	
1.1.4) Lot 16 ACNIP (Block 4 B Kits) - NonOrganic <i>Installation 2 of 4</i>	- / -	- / -	33 / 3.300	30 / 3.000	- / -	30 / 3.000	24 / 2.400	- / -	- / -	- / -	- / -	87 / 8.700	
1.1.5) Lot 17 M-EWC (Block 4 B Kits) - NonOrganic <i>Installation 3 of 4</i>	- / -	- / -	10 / 13.400	22 / 29.480	- / -	22 / 29.480	24 / 32.160	24 / 32.160	23 / 30.820	9 / 30.820	- / -	112 / 168.840	
1.1.6) Lot 19 AMCTR (Block 4 B Kits) - NonOrganic <i>Installation 4 of 4</i>	- / -	- / -	- / -	23 / 52.509	- / -	23 / 52.509	28 / 63.924	39 / 89.037	29 / 66.207	27 / 61.641	- / -	146 / 333.318	
1.2.1) Block 4 NRE - Organic ^(*)	- / 1.930	- / 2.200	- / 2.200	- / 2.917	- / -	- / 2.917	- / 2.927	- / 2.935	- / 2.955	- / -	- / -	- / 18.064	
Subtotal: Procurement	- / 11.482	- / 53.426	- / 81.859	- / 160.406	- / -	- / 160.406	- / 101.411	- / 124.132	- / 99.982	- / 92.461	- / 0.000	- / 725.159	
Support													
2.1) ILS ⁽¹⁰⁾	- / 3.783	- / 4.069	- / 2.029	- / 2.820	- / -	- / 2.820	- / 7.766	- / 6.230	- / 3.973	- / 1.204	- / -	- / 31.874	
2.2) Pilot Training Devices ⁽¹¹⁾	- / -	- / -	- / -	- / 10.752	- / -	- / 10.752	- / 13.120	- / 13.120	- / 13.130	- / 13.130	- / -	- / 63.252	
2.3) Other Support - Tooling Capacity for Mods ⁽¹²⁾	- / 4.875	- / 1.565	- / 4.035	- / 4.275	- / -	- / 4.275	- / 4.347	- / 4.410	- / 3.641	- / -	- / -	- / 27.148	
Subtotal: Support	- / 8.658	- / 5.634	- / 6.064	- / 17.847	- / -	- / 17.847	- / 25.233	- / 23.760	- / 20.744	- / 14.334	- / 0.000	- / 122.274	
Installation													
Installation 1 of 4: GRP: Lot 15 TR3/DAS	- / -	- / -	- / -	- / 20.460	- / 0.000	- / 20.460	- / 25.916	- / 15.004	- / -	- / -	- / 0.000	- / 61.380	
Installation 2 of 4: GRP: Lot 16 ACNIP	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 4.026	- / 3.660	- / 2.928	- / 10.614	
Installation 3 of 4: GRP: Lot 17 M-EWC	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.260	- / 4.972	- / 17.628	- / 24.860	
Installation 4 of 4: GRP: Lot 19 AMCTR	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 15.663	- / 17.706	- / 64.695	- / 98.064	
Subtotal: Installation	- / 0.000	- / -	- / -	- / 20.460	- / -	- / 20.460	- / 25.916	- / 15.004	- / 21.949	- / 26.338	- / 85.251	- / 194.918	
Total													
Total Cost (Procurement + Support + Installation)	20.140	59.060	87.923	198.713	0.000	198.713	152.560	162.896	142.675	133.133	85.251	1,042.351	

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0592 / F-35 STOVL Series	Modification Number / Title: 3 / F-35 STOVL BLOCK 4 UPGRADE (OSIP 012-20)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Installation 1 of 4: GRP: Lot 15 TR3/DAS

Manufacturer Information

Manufacturer Name: Lockheed Martin	Manufacturer Location: Fort Worth, TX
Administrative Leadtime (in Months): 3	Production Leadtime (in Months): 24

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates	Dec 2021	Mar 2023	Mar 2024	Mar 2025	Mar 2026	Mar 2027	
Delivery Dates	Dec 2023	Dec 2026	Dec 2027	Dec 2028	Dec 2029	Dec 2030	

Installation Information

Method of Implementation: Contract, Depot Artisans:: Installation Name: Lot 15 TR3/DAS

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	25 / 20.460	0 / 0.000	25 / 20.460	- / -	- / -	- / -	- / -	0 / 0.000	25 / 20.460
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	38 / 25.916	- / -	- / -	- / -	0 / 0.000	38 / 25.916
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	22 / 15.004	- / -	- / -	0 / 0.000	22 / 15.004
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	25 / 20.460	0 / 0.000	25 / 20.460	38 / 25.916	22 / 15.004	- / -	- / -	0 / 0.000	85 / 61.380

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot	
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4			
In	-	-	-	-	-	-	-	-	-	5	6	7	7	8	10	10	10	4	6	6	6	-	-	-	-	-	-	-	-	-	-	85
Out	-	-	-	-	-	-	-	-	-	-	5	6	7	7	8	10	10	10	4	6	6	6	-	-	-	-	-	-	-	-	-	85

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0592 / F-35 STOVL Series	Modification Number / Title: 3 / F-35 STOVL BLOCK 4 UPGRADE (OSIP 012-20)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Installation 2 of 4: GRP: Lot 16 ACNIP

Manufacturer Information

Manufacturer Name: Lockheed Martin				Manufacturer Location: Fort Worth, TX			
Administrative Leadtime (in Months): 6				Production Leadtime (in Months): 44			
Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates		Dec 2022	Dec 2023	Dec 2024			
Delivery Dates		Dec 2024	Dec 2025	Nov 2027			

Installation Information

Method of Implementation: Contract, Depot Artisans:: Installation Name: Lot 16 ACNIP

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	33 / 4.026	- / -	0 / 0.000	33 / 4.026
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	30 / 3.660	0 / 0.000	30 / 3.660
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	24 / 2.928	24 / 2.928
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	33 / 4.026	30 / 3.660	24 / 2.928	87 / 10.614

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8	5	10	10	6	8	8	8	24	87
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	10	10	8	6	8	8	32	87

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0592 / F-35 STOVL Series	Modification Number / Title: 3 / F-35 STOVL BLOCK 4 UPGRADE (OSIP 012-20)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Installation 3 of 4: GRP: Lot 17 M-EWC

Manufacturer Information

Manufacturer Name: Lockheed Martin	Manufacturer Location: Fort Worth, TX
Administrative Leadtime (in Months): 6	Production Leadtime (in Months): 33

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates		Mar 2024	Mar 2025	Mar 2026	Mar 2027	Mar 2028	
Delivery Dates		Dec 2026	Dec 2027	Dec 2028	Dec 2029	Dec 2030	

Installation Information

Method of Implementation: Contract, Depot Artisans:: Installation Name: Lot 17 M-EWC

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	10 / 2.260	- / -	0 / 0.000	10 / 2.260
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	22 / 4.972	0 / 0.000	22 / 4.972
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	24 / 4.972	24 / 4.972
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	24 / 5.424	24 / 5.424
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	23 / 5.198	23 / 5.198
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	9 / 2.034	9 / 2.034
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	10 / 2.260	22 / 4.972	80 / 17.628	112 / 24.860

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	4	2	4	6	6	6	80	112
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	-	4	2	4	6	6	6	80	112

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0592 / F-35 STOVL Series	Modification Number / Title: 3 / F-35 STOVL BLOCK 4 UPGRADE (OSIP 012-20)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Installation 4 of 4: GRP: Lot 19 AMCTR

Manufacturer Information

Manufacturer Name: Lockheed Martin	Manufacturer Location: Fort Worth, TX
Administrative Leadtime (in Months): 3	Production Leadtime (in Months): 24

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates			Dec 2023	Dec 2024	Dec 2025	Dec 2026	
Delivery Dates			Dec 2025	Dec 2026	Dec 2027	Dec 2028	

Installation Information

Method of Implementation: Contract, Depot Artisans:: Installation Name: Lot 19 AMCTR

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	23 / 15.663	- / -	0 / 0.000	23 / 15.663
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	28 / 17.706	0 / 0.000	28 / 17.706
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	39 / 26.559	39 / 26.559
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	29 / 19.749	29 / 19.749
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	27 / 18.387	27 / 18.387
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	23 / 15.663	28 / 17.706	95 / 64.695	146 / 98.064

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	6	6	5	7	7	7	7	95	146
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	6	6	5	-	7	7	7	102	146

Footnotes:
⁽¹⁰⁾ Cost growth driven by need to retrofit pilot training devices to match the Block 4 aircraft configuration.
⁽¹¹⁾ The increase is TSS PMO Procurement funding to enable procurement and installation of TR-3 equivalent mod kits for USMC F-35 Pilot Training Devices at MCAS Beaufort, MCAS Yuma, MCAS Miramar, MCAS Cherry Point and MCAS Iwakuni.

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0592 / F-35 STOVL Series	Modification Number / Title: 3 / F-35 STOVL BLOCK 4 UPGRADE (OSIP 012-20)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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⁽¹²⁾ Other support: Tooling required to increase manufacturing capability to ensure modification requirements can be met, regardless of production and sustainment needs for Block 4 parts. FY2024 reflects the necessary investments to achieve Lot 17 and Lot 18 retrofit kit production capacity of 216 kits per year.

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0592 / F-35 STOVL Series	Modification Number / Title: 4 / F-35 STOVL RELIABILITY AND MAINTAINABILITY (OSIP 009-21)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	0.000	10.085	5.462	4.500	0.000	4.500	13.257	23.007	25.905	7.973	0.000	90.189
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	0.000	10.085	5.462	4.500	0.000	4.500	13.257	23.007	25.905	7.973	0.000	90.189
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	0.000	10.085	5.462	4.500	0.000	4.500	13.257	23.007	25.905	7.973	0.000	90.189

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

This Operational Safety Improvement Program is established for the correction of readiness degraders impacting F-35 STOVL cost per flight hour, Reliability Maintainability and Availability (RM&A), obsolescence, and reduction of life-cycle costs. These modifications will be accomplished by unit level installs/field mod teams and implemented to coincide with resources and aircraft availability.

In order to meet the goal of increasing readiness, the airframe and integrated systems must be modified as critical RM&A issues are identified. Funds will be used to manage, prepare, process, and incorporate Engineering Change Proposals (ECP's). Individual ECPs will be listed once identified. The reliability and readiness initiatives included in the proposed OSIP are projected to have a significant positive impact to the F-35 STOVL Aircraft platform.

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Exhibit P-3a, Individual Modification: PB 2024 Navy										Date: March 2023			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0592 / F-35 STOVL Series					Modification Number / Title: 4 / F-35 STOVL RELIABILITY AND MAINTAINABILITY (OSIP 009-21)			
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: F-35 STOVL				Modification Type: Capability Improvement				Related RDT&E PEs: 0604800M, 0604840M					
Financial Plan	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
<i>Modification Item 1 of 1:</i> F-35 STOVL RELIABILITY AND MAINTAINABILITY (OSIP 009-21)													
A Kits													
Recurring													
1.1.1) Reliability and Maintainability (A Kits) - Organic	- / -	10 / 0.625	30 / 1.815	36 / 2.000	- / -	36 / 2.000	78 / 4.855	116 / 9.600	120 / 9.700	22 / 1.491	- / -	412 / 30.086	
<i>Subtotal: Recurring</i>	- / 0.000	- / 0.625	- / 1.815	- / 2.000	- / -	- / 2.000	- / 4.855	- / 9.600	- / 9.700	- / 1.491	- / 0.000	- / 30.086	
B Kits													
Recurring													
2.1.1) Reliability and Maintainability (B Kits) - Organic (13)	- / -	10 / 9.060	30 / 3.247	36 / 2.000	- / -	36 / 2.000	78 / 5.902	116 / 9.907	120 / 11.705	45 / 3.772	- / -	435 / 45.593	
<i>Subtotal: Recurring</i>	- / 0.000	- / 9.060	- / 3.247	- / 2.000	- / -	- / 2.000	- / 5.902	- / 9.907	- / 11.705	- / 3.772	- / 0.000	- / 45.593	
<i>Subtotal: F-35 STOVL RELIABILITY AND MAINTAINABILITY (OSIP 009-21)</i>	- / -	20 / 9.685	60 / 5.062	72 / 4.000	- / -	72 / 4.000	156 / 10.757	232 / 19.507	240 / 21.405	67 / 5.263	- / -	847 / 75.679	
<i>Subtotal: Procurement, All Modification Items</i>	- / 0.000	- / 9.685	- / 5.062	- / 4.000	- / -	- / 4.000	- / 10.757	- / 19.507	- / 21.405	- / 5.263	- / 0.000	- / 75.679	
Support (All Modification Items)													
3.1) Other Support	- / -	- / 0.400	- / 0.400	- / 0.500	- / -	- / 0.500	- / 2.500	- / 3.500	- / 4.500	- / 2.710	- / -	- / 14.510	
<i>Subtotal: Support</i>	- / 0.000	- / 0.400	- / 0.400	- / 0.500	- / -	- / 0.500	- / 2.500	- / 3.500	- / 4.500	- / 2.710	- / 0.000	- / 14.510	
Installation													
<i>Subtotal: Installation</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
Total													
Total Cost (Procurement + Support + Installation)	0.000	10.085	5.462	4.500	0.000	4.500	13.257	23.007	25.905	7.973	0.000	90.189	

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0592 / F-35 STOVL Series	Modification Number / Title: 4 / F-35 STOVL RELIABILITY AND MAINTAINABILITY (OSIP 009-21)
ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:	
Modification Item 1 of 1: F-35 STOVL RELIABILITY AND MAINTAINABILITY (OSIP 009-21)		

Footnotes:

⁽¹³⁾ Cost varies from year to year based on complexity of modifications and aircraft availability to perform modifications as required. Reliability and Maintainability (R&M) projects are projected to be numerous small ECP's that can occur quickly and be installed at the organic/unit level.

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Exhibit P-3a, Individual Modification: PB 2024 Navy	Date: March 2023
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Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0592 / F-35 STOVL Series	Modification Number / Title: 5 / Inactive/Completed OSIPs
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ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	664.891	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	664.891
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) <i>(\$ in Millions)</i>	664.891	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	664.891
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	664.891	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	664.891

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Dollars)</i>	-	-	-	-	-	-	-	-	-	-	-	-

Description:

This OSIP is to archive F-35 STOVL OSIPs
 BLOCK 3i/3F UPGRADE (OSIP 015-14)
 CONCURRENCY (OSIP 023-14)

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Exhibit P-3a, Individual Modification: PB 2024 Navy **Date:** March 2023

Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1 **P-1 Line Item Number / Title:** 0592 / F-35 STOVL Series **Modification Number / Title:** 5 / Inactive/Completed OSIPs

ID Code (A=Service Ready, B=Not Service Ready) : **MDAP/MAIS Code:**

Models of Systems Affected: F-35 STOVL **Modification Type:** Archive **Related RDT&E PEs:** 0604800M, 0604840M

Financial Plan	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Procurement												
<i>Modification Item 1 of 1:</i> Inactive/Completed OSIPs												
B Kits												
Recurring												
2.1.1) Inactive OSIP 015-14 - Organic	- / 170.436	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 170.436
2.1.2) Inactive OSIP 023-14 - Organic	- / 494.455	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 494.455
<i>Subtotal: Recurring</i>	- / 664.891	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 664.891
<i>Subtotal: Inactive/Completed OSIPs</i>	- / 664.891	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 664.891
<i>Subtotal: Procurement, All Modification Items</i>	- / 664.891	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 664.891
Installation												
<i>Subtotal: Installation</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total												
Total Cost (Procurement + Support + Installation)	664.891	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	664.891

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0592 / F-35 STOVL Series	Modification Number / Title: 5 / Inactive/Completed OSIPs
ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:	
Modification Item 1 of 1: Inactive/Completed OSIPs		

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Exhibit P-40, Budget Line Item Justification: PB 2024 Navy **Date:** March 2023

Appropriation / Budget Activity / Budget Sub Activity: 1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft	P-1 Line Item Number / Title: 0593 / F-35 CV Series
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ID Code (A=Service Ready, B=Not Service Ready): B	Program Elements for Code B Items: 0604800N, 0604840N	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: 198

Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	282.347	118.933	173.349	166.909	0.000	166.909	184.346	191.999	194.656	199.146	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	282.347	118.933	173.349	166.909	0.000	166.909	184.346	191.999	194.656	199.146	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	282.347	118.933	173.349	166.909	0.000	166.909	184.346	191.999	194.656	199.146	Continuing	Continuing

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The F-35 Joint Strike Fighter (JSF) Program will develop and deploy a family of highly common, affordable, next generation, stealthy, multi-role strike fighters that meet the needs of multiple services and countries. The United States Navy Carrier Variant (CV) Modifications Program provides near and long-term improvements to the fleet, focusing on documented deficiencies related to safety, reliability and maintainability, avionics, block upgrades, and aircraft systems. These modifications and selected component changes are being accomplished by contractor field teams and organic depot retrofit activities.

Block upgrades provide more robust performance in navigation, weapons, avionics, survivability, maneuverability, maintainability, and mission deployment of the F-35C platform. This modification program will bring early production Low Rate Initial Production (LRIP) aircraft and integrated systems to a common fleet configuration as fielded capabilities evolve over the course of the F-35 program.

In order to meet emerging deficiencies, the airframe and integrated systems must be modified as critical corrections/changes are identified. Funds will be used to manage, prepare, process, and incorporate changes to sustain and improve F-35B system operations.

The Structural Life Limit Program Group 2 (SLLP2) will remove life limits below 4,000 hours. The Engineering Change Proposals (ECP) necessary to extend the life of the aircraft to 8,000 hours is known as SLLP3. In 2022, the program finished analysis of the results of the Damage and Durability Testing and developed the initial list of SLLP3 issues. Non-recurring engineering to develop the engineering solutions and ECPs for SLLP 3 began in FY2023. In FY2024, the program will continue to install SLLP2 ECPs while continuing to develop the engineering solutions for SLLP3 ECPs. The program intends to award SLLP3 ECPs as soon as possible to maximize installation efficiency in the future.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES

FY2022 was the first year of procurement for Lot 15/Tech Refresh 3 (TR-3) Block 4 capabilities with TR-3 deliveries planned for FY2024. In FY2023, the program began purchasing Lot 16 and Lot 17 retrofit kits to deliver additional Block 4 capabilities. In FY2024, the program plans to begin kit procurements for Lot 19 hardware while continuing to buy Lot 15, 16, and 17 kits. The program plans to complete TR-3 kit procurements for F-35C in 2024. Additionally, the program will begin installing Tech Refresh 3 (TR-3) kits in calendar year 2024.

In FY2024, Ogden Air Logistics Complex will expand from 19 to 30 modification docks. F-35C Laser Shock Peening for F-35C began in FY2022 and will continue in FY2024.

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Exhibit P-40, Budget Line Item Justification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft		P-1 Line Item Number / Title: 0593 / F-35 CV Series

ID Code (A=Service Ready, B=Not Service Ready): B	Program Elements for Code B Items: 0604800N, 0604840N	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: 198

Exhibits Schedule					Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	2 / F-35 CV BLOCK 4 UPGRADE (OSIP 011-20) (Capability Improvement)				- / 35.350	- / 77.650	- / 119.728	- / 114.588	- / 0.000	- / 114.588
P-3a	3 / F-35 CV PROPULSION (OSIP 013-20) (Engine Related Modifications)				- / 9.533	- / 3.585	- / 3.698	- / 2.301	- / 0.000	- / 2.301
P-3a	4 / F-35 CV CORRECTION OF DEFICIENCIES (OSIP 001-21) (Capability Improvement)				- / 49.880	- / 37.698	- / 47.273	- / 48.333	- / 0.000	- / 48.333
P-3a	5 / F-35 CV RELIABILITY AND MAINTAINABILITY (OSIP 002-21) (Capability Improvement)				- / 0.000	- / 0.000	- / 2.650	- / 1.687	- / 0.000	- / 1.687
P-3a	6 / Inactive/Completed OSIPS (Archived Mods)				- / 187.584	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000
P-40	Total Gross/Weapon System Cost				- / 282.347	- / 118.933	- / 173.349	- / 166.909	- / 0.000	- / 166.909

Exhibits Schedule					FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	2 / F-35 CV BLOCK 4 UPGRADE (OSIP 011-20) (Capability Improvement)				- / 99.602	- / 93.285	- / 88.873	- / 66.858	- / 38.200	- / 734.134
P-3a	3 / F-35 CV PROPULSION (OSIP 013-20) (Engine Related Modifications)				- / 1.601	- / 7.177	- / 2.196	- / 2.731	Continuing	Continuing
P-3a	4 / F-35 CV CORRECTION OF DEFICIENCIES (OSIP 001-21) (Capability Improvement)				- / 81.412	- / 88.707	- / 100.407	- / 126.421	- / 337.853	- / 917.984
P-3a	5 / F-35 CV RELIABILITY AND MAINTAINABILITY (OSIP 002-21) (Capability Improvement)				- / 1.731	- / 2.830	- / 3.180	- / 3.136	- / 0.600	- / 15.814
P-3a	6 / Inactive/Completed OSIPS (Archived Mods)				- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 187.584
P-40	Total Gross/Weapon System Cost				- / 184.346	- / 191.999	- / 194.656	- / 199.146	Continuing	Continuing

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.
 Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

Justification:
 Basis for FY2024 budget request is to continue to fund the F-35C Total Active Inventory, which is 115 aircraft. Based on production Lots 4-15 aircraft, FY2024 funding increased for kits and installs to support Structural Life Limited Parts Group 2 (SLLP2), the acceleration of modification efforts to a Block 4 configuration, Correction of Deficiency, Propulsion, and Reliability and Maintainability modifications in support of global F-35C operations.

F-35C depot aircraft installation costs will increase FY2024 due to a rise in the number of inductions and the increase in number of modifications authorized to be installed during each induction. The program expects modification hours for Correction of Deficiencies to increase by 12.4 percent reaching 70,000 hours in FY2024. F-35C SLLP2 modifications are projected to complete in 2034. Delays in funding will put that completion date at risk.

For Block 4, the program expects to achieve the maximum enterprise capacity for lot 17 kit procurements of 216 shipsets per year in 2024. Similarly, lot 19 procurements will begin at 70 percent of their maximum capacity of 225 shipsets per year in 2024 before reaching full capacity in 2025.

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Exhibit P-40, Budget Line Item Justification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft		P-1 Line Item Number / Title: 0593 / F-35 CV Series
ID Code (A=Service Ready, B=Not Service Ready): B	Program Elements for Code B Items: 0604800N, 0604840N	Other Related Program Elements: N/A
Line Item MDAP/MAIS Code: 198		

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0593 / F-35 CV Series	Modification Number / Title: 2 / F-35 CV BLOCK 4 UPGRADE (OSIP 011-20)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	35.350	77.650	119.728	114.588	0.000	114.588	99.602	93.285	88.873	66.858	38.200	734.134
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	35.350	77.650	119.728	114.588	0.000	114.588	99.602	93.285	88.873	66.858	38.200	734.134
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	35.350	77.650	119.728	114.588	0.000	114.588	99.602	93.285	88.873	66.858	38.200	734.134

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The Block 4 Program is established to retrofit advanced capabilities on the F-35 to increase the capability and lethality of the weapon system to meet current and future threats. Funding is required to upgrade Low Rate Initial Production (LRIP) to a Lot 19 Production hardware configuration. Block 4 incorporation will not follow the traditional Block upgrade approach; instead, modifications will be performed through a Continuous Capability Development (CCD) and Delivery Concept that entails upgrades to both hardware and software on fielded aircraft on a yearly base. The current modification incorporation schedule lags production by one year. The program will maintain that schedule for subsequent lots pending part qualification dates.

The Block 4 program is a series of 66+ individual required capabilities. Hardware required to enable capability will be incorporated in aircraft production aircraft throughout aircraft production Lots 15-19. Hardware retrofit ECPs are required to deliver each Lot's capabilities to fielded aircraft. The program refers to the combination of ECPs required to match a Lot 15 production aircraft's full set of capabilities as a Lot 15 hardware retrofit kit. Each lot configuration from the production line is a new full set of explicit and individual capabilities and associated Retrofit Engineering Change Proposals. The final set of the 66+ capabilities for Block 4 are enabled by installing a Lot 19 hardware retrofit kit. As an example, a Lot 14 production aircraft needs a Lot 15 kit, a Lot 16 kit, a Lot 17 kit, and a Lot 19 kit to deliver all 66+ capabilities, but each individual kit delivers capability.

This effort includes, but not limited to the below capabilities and associated modification install timelines:

FY2024 (Lot 15)

Technical Refresh 3 (TR-3), Next Generation Distributed Aperture System (Next Gen DAS), Cooling Mod, High Efficiency Low Voltage Power Supply, (HE-LVPS), Electronic Warfare Rack 2 IBA, Radio Frequency Converter (RFC), and Fuel Conduit Mod.

- 1) ECP 1609
 - TR-3 integrates new Integrated Core Processor (ICP), Panoramic Cockpit Display, and Aircraft Memory System to meet Block 4 processing, memory, and throughput requirements.
- 2) ECP 1610
 - Next Gen DAS replaces current DAS due to sensor reliability while increasing performance to provide larger pixel focal plane array and higher operating temperatures.
 - Cooling Upgrade Phase 1 increases cooling capacity to support electronic warfare growth and addition of Full Motion Video (FMV).
 - HE-LVPS required for EW mods increased power flexibility.
 - Rack 2 IBA and RFC replace legacy EW racks to accommodate modernized EW modules
- 3) ECP 1323
 - Fuel Conduit Mod enables alternate wire routing for Block 4 upgrades for Pre-Lot 15 Aircraft to eliminate the need to route wiring through the dead zone and accommodates future wiring needs.

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0593 / F-35 CV Series	Modification Number / Title: 2 / F-35 CV BLOCK 4 UPGRADE (OSIP 011-20)
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:
<p>FY2025 (Lot 16) Advanced Communication, Navigation, Identification Processor (ACNIP) and CNI Avionics Interface Controller (CAIC) - ACNIP and CAIC provide increased processing capabilities to support Concurrent Multi-Netting (CMN-4) capabilities - Band 3/4 Array Electronic Modules (AEM) - replaces legacy AEMs to support Electronic Countermeasures capabilities</p> <p>FY2026 (Lot 17) Modernized Electronic Warfare Controller (M-EWC), and Modernized Electronic Warfare Processor (M-EWP), EW Group 2, Domain Controller Radar Control Processor (DCRCP), and Cooling Upgrade Phase 2 - M-EWC/EWP increases 8-core processors (SDD) to 32-core, providing more than 3 times the processing performance for running advance algorithms and supporting the transition from 12 Receivers (SDD) to 20 Receivers - EW Group 2 adds technology to address the Advancing Threats, to detect and counter the LPI Emitter; includes, Aircraft Interface Module (ACIF), M-Quad Upconverter (M-QUC), M-Quad Tuner (M-QTM), M-Digital Channelized Receiver (DCR), M-DCR and Techniques Receiver (DCRTG), M-Analog-to-Digital Converter (ADC), - DCRCP enables increased processing, memory, and throughput - Cooling Upgrade Phase 2 increases cooling capacity to support electronic warfare growth and Full Motion Video (FMV)</p> <p>FY2027 (Lot 19) Advanced Multi Channel Transceiver Receiver (AMCTR), Integrated CNI (ICNI) Rack 3A and 3B Backplane, Full Motion Video, Embedded GPS and Inertial Navigation System (EGI), Band 2/3/4/5 Electronic Warfare, and Countermeasures Controller (CMC) (EW) Hardware (HW) and EW Group 2 HW - AMCTR provides MIDS Modernization Increment 1 (MMI) Concurrent Multi-Netting (CMN) and Concurrent Contention Receive (CCR) capabilities - Full Motion Video adds the capability to receive encrypted and unencrypted full motion video and still imagery from Operational Facilities and Remote Video Terminals - ICNI Rack 3A and 3B Backplane - Meet C2D2/ Block 4 processing, memory, and throughput requirements - EGI is a hardware enabler for M-Code/Automatic Dependent Surveillance-Broadcast/Required Navigation Performance/area navigation capabilities - Band 2/3/4/5 EW HW provides Band 2&5 RWR functionality by adding Band 2 Nose Landing Gear Door (NLGD) Aperture, Band 3/4 NLGD Aperture, Band 2/3/4 Array Electronic Module (AEM), Band 5 MADL AAA and AIU, and Band 5 IM - EW Group 2 HW includes Wideband Receiver (WBR), Wideband Notch Filter Module (NFM), Band 2/5 Switch Matrix Module (SMM), M-Radio Frequency Converter (M-RFC), and High Voltage Power Supply (HVPS) - adds technology to address the Advancing Threats, to detect and counter the LPI Emitter while providing Band 5 RWR functionality. - CMC adds capability for smart programmable dispenser capability</p> <p>FY2024 - Install EW Digital Channelized Receiver/Techniques Generator (DRC/TG) Tuner Insertion Program (DTIP) kits - requirement for TR-3 /Lot 15 upgrades</p> <p>Note: TR-3/Block 4 retrofit installations were pushed one year later than production to account for manufacturing ramp rate and technical risk associated with hardware availability. Manufacturing capacity is projected to be 70 percent in the first year of procurement and 100 percent in subsequent years for all lots.</p> <p>Integrated Logistics Support (ILS): ILS is required for program support and to support changes driven by Block 4 upgrades to fielded systems to include ALIS, Training (full motion simulator), JRE impacts, and support equipment. Unit, organic depot, or contractor field teams will complete the modification installs.</p> <p>In FY2024, program will purchase equipment necessary to begin upgrading the trainers to match the retrofitted Block 4 aircraft. Training system upgrades will ensure the simulator matches the aircraft increasing the effectivity of the training reducing aircraft flight hours. Additionally, training on a simulator that does not match the aircraft can lead to potential mishaps in aircraft operations.</p> <p>DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:</p>		

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0593 / F-35 CV Series	Modification Number / Title: 2 / F-35 CV BLOCK 4 UPGRADE (OSIP 011-20)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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FY2024 continues the progression of the Block 4 retrofit program kit purchases. FY2022 was the first year of procurement for Lot 15/Tech Refresh 3 (TR-3) Block 4 capabilities with TR-3 deliveries planned for FY2024. In FY2023, the program began purchasing Lot 16 and Lot 17 retrofit kits to deliver additional Block 4 capabilities. In FY2024, the program plans to begin kit procurements for Lot 19 hardware while continuing to buy Lot 15, 16, and 17 kits. The program plans to complete TR-3 kit procurements for F-35C in 2024. Additionally, the program will begin installing Tech Refresh 3 (TR-3) kits in calendar year 2024.

JUSTIFICATION:

FY2024 reflects a decrease for Block 4 for F-35C due primarily to the final Lot 15 (TR-3) purchases. The slowdown in Lot 15 purchases is partially offset by the program achieving the maximum production capacity of 216 shipsets per year for Lot 17. The kit rate for Lot 19 will start at 70 percent of capacity in 2024 before also achieving 216 shipsets per year in 2025. FY2024 will include simultaneous purchases of Lot 15, Lot 16, Lot 17, and Lot 19 retrofit kits in order to release capability to the field as quickly as prudently possible. Training system upgrade kit procurements will also begin in 2024.

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Exhibit P-3a, Individual Modification: PB 2024 Navy										Date: March 2023			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0593 / F-35 CV Series						Modification Number / Title: 2 / F-35 CV BLOCK 4 UPGRADE (OSIP 011-20)			
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: F-35 CV				Modification Type: Capability Improvement				Related RDT&E PEs: 0604800N, 0604840N					
Financial Plan <small>(*) Indicates the modification is being installed organically and no installation funds are required.</small>	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total	
	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	<small>Qty (Each) / Total Cost (\$ M)</small>	
Procurement													
1.1.1) Mag Retainer Plate (Block 4 B Kits) - Organic ^(*)	49 / 0.168	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	49 / 0.168	
1.1.2) Lot 15 TR3/Next Gen DAS/Cooling Mod (Block 4 B Kits) - NonOrganic <i>Installation 1 of 5</i>	- / -	23 / 49.950	28 / 70.000	10 / 25.000	- / -	10 / 25.000	- / -	- / -	- / -	- / -	- / -	61 / 144.950	
1.1.3) Lot 16 ACNIP/CAIC (Block 4 B Kits) - NonOrganic <i>Installation 2 of 5</i>	- / -	- / -	29 / 2.900	21 / 2.100	- / -	21 / 2.100	22 / 2.200	13 / 1.300	- / -	- / -	- / -	85 / 8.500	
1.1.4) Lot 17 M-EWC/M-EWP/DCRP/Coolin Mod (EW Phase 2) (Block 4 B Kits) - NonOrganic <i>Installation 3 of 5</i>	- / -	- / -	18 / 23.940	20 / 26.600	- / -	20 / 26.600	20 / 26.600	24 / 31.920	20 / 26.600	- / -	- / -	102 / 135.660	
1.1.5) Lot 19 AMCTR - FMV/EGI/EW Grp 2 (Block 4 B Kits) - NonOrganic <i>Installation 4 of 5</i>	- / -	- / -	- / -	20 / 40.000	- / -	20 / 40.000	24 / 48.000	23 / 46.000	24 / 48.000	21 / 42.000	- / -	112 / 224.000	
1.1.6) DMS DTIP - NonOrganic <i>Installation 5 of 5</i>	11 / 23.640	11 / 17.730	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	22 / 41.370	
1.2.1) Block 4 NRE - Organic ^(*)	- / 5.023	- / 2.819	- / 3.125	- / 0.350	- / -	- / 0.350	- / 0.350	- / 0.350	- / 0.350	- / -	- / -	- / 12.367	
Subtotal: Procurement	- / 28.831	- / 70.499	- / 99.965	- / 94.050	- / -	- / 94.050	- / 77.150	- / 79.570	- / 74.950	- / 42.000	- / 0.000	- / 567.015	
Support													
2.1) ILS	- / 4.004	- / 6.038	- / 5.166	- / 4.796	- / -	- / 4.796	- / 4.157	- / 1.625	- / 0.768	- / 1.263	- / -	- / 27.817	
2.2) Pilot Training Devices	- / -	- / -	- / -	- / 3.330	- / -	- / 3.330	- / 7.095	- / 8.090	- / 3.145	- / 0.335	- / -	- / 21.995	
2.3) Other Support - Tooling Capacity for Mods ⁽¹⁾	- / 2.515	- / 1.113	- / 13.717	- / 2.332	- / -	- / 2.332	- / -	- / -	- / -	- / -	- / -	- / 19.677	
Subtotal: Support	- / 6.519	- / 7.151	- / 18.883	- / 10.458	- / -	- / 10.458	- / 11.252	- / 9.715	- / 3.913	- / 1.598	- / 0.000	- / 69.489	
Installation													
Installation 1 of 5: GRP: Lot 15 TR3/DAS	- / -	- / -	- / -	- / 9.200	- / 0.000	- / 9.200	- / 11.200	- / 4.000	- / -	- / -	- / 0.000	- / 24.400	
Installation 2 of 5: GRP: Lot 16 ACNIP	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.290	- / 0.430	- / 0.180	- / 0.900	
Installation 3 of 5: GRP: Lot 17 M-EWC	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.720	- / 1.680	- / 4.360	- / 6.760	
Installation 4 of 5: GRP: Lot 19 AMCTR	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 9.000	- / 21.150	- / 33.660	- / 63.810	
Installation 5 of 5: GRP: DMS DTIP	- / -	- / -	- / 0.880	- / 0.880	- / 0.000	- / 0.880	- / -	- / -	- / -	- / -	- / 0.000	- / 1.760	
Subtotal: Installation	- / 0.000	- / -	- / 0.880	- / 10.080	- / -	- / 10.080	- / 11.200	- / 4.000	- / 10.010	- / 23.260	- / 38.200	- / 97.630	
Total													
Total Cost (Procurement + Support + Installation)	35.350	77.650	119.728	114.588	0.000	114.588	99.602	93.285	88.873	66.858	38.200	734.134	

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0593 / F-35 CV Series	Modification Number / Title: 2 / F-35 CV BLOCK 4 UPGRADE (OSIP 011-20)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Installation 1 of 5: GRP: Lot 15 TR3/DAS

Manufacturer Information

Manufacturer Name: Lockheed Martin	Manufacturer Location: Fort Worth, TX
Administrative Leadtime (in Months): 3	Production Leadtime (in Months): 24

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates	Dec 2021	Dec 2022	Dec 2023				
Delivery Dates	Dec 2023	Dec 2024	Dec 2025				

Installation Information

Method of Implementation: Contract, Depot Artisans:: Installation Name: Lot 15 TR3/DAS

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	23 / 9.200	0 / 0.000	23 / 9.200	- / -	- / -	- / -	- / -	0 / 0.000	23 / 9.200
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	28 / 11.200	- / -	- / -	- / -	0 / 0.000	28 / 11.200
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	10 / 4.000	- / -	- / -	0 / 0.000	10 / 4.000
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	23 / 9.200	0 / 0.000	23 / 9.200	28 / 11.200	10 / 4.000	- / -	- / -	0 / 0.000	61 / 24.400

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot	
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4			
In	-	-	-	-	-	-	-	-	-	5	6	6	6	7	7	7	7	3	3	2	2	-	-	-	-	-	-	-	-	-	-	61
Out	-	-	-	-	-	-	-	-	-	-	5	6	6	6	7	7	7	7	-	2	2	3	3	-	-	-	-	-	-	-	-	61

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0593 / F-35 CV Series	Modification Number / Title: 2 / F-35 CV BLOCK 4 UPGRADE (OSIP 011-20)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Installation 2 of 5: GRP: Lot 16 ACNIP

Manufacturer Information

Manufacturer Name: Lockheed Martin	Manufacturer Location: Fort Worth, TX
Administrative Leadtime (in Months): 3	Production Leadtime (in Months): 24

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates		Dec 2022	Dec 2023	Dec 2024	Dec 2025		
Delivery Dates		Dec 2024	Dec 2025	Dec 2026	Dec 2027		

Installation Information

Method of Implementation: Contract, Depot Artisans:: Installation Name: Lot 16 ACNIP

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	29 / 0.290	- / -	0 / 0.000	29 / 0.290
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	21 / 0.210	0 / 0.000	21 / 0.210
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	22 / 0.220	0 / 0.000	22 / 0.220
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	13 / 0.180	13 / 0.180
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	29 / 0.290	43 / 0.430	13 / 0.180	85 / 0.900

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10	10	9	-	15	15	13	13	85
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9	-	10	10	-	15	15	13	13	85

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0593 / F-35 CV Series	Modification Number / Title: 2 / F-35 CV BLOCK 4 UPGRADE (OSIP 011-20)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Installation 3 of 5: GRP: Lot 17 M-EWC

Manufacturer Information

Manufacturer Name: Lockheed Martin	Manufacturer Location: Fort Worth, TX
Administrative Leadtime (in Months): 3	Production Leadtime (in Months): 36

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates		Dec 2022	Dec 2023	Dec 2024	Dec 2025	Dec 2026	
Delivery Dates		Dec 2025	Dec 2026	Dec 2027	Dec 2028	Dec 2029	

Installation Information

Method of Implementation: Contract, Depot Artisans:: Installation Name: Lot 17 M-EWC

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	18 / 0.720	- / -	0 / 0.000	18 / 0.720
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	20 / 0.800	0 / 0.000	20 / 0.800
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	20 / 0.880	0 / 2.600	20 / 3.480
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	24 / 0.960	24 / 0.960
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	20 / 0.800	20 / 0.800
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	18 / 0.720	40 / 1.680	44 / 4.360	102 / 6.760

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	6	6	-	14	14	12	44	102
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	6	6	7	14	12	51	102

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0593 / F-35 CV Series	Modification Number / Title: 2 / F-35 CV BLOCK 4 UPGRADE (OSIP 011-20)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Installation 4 of 5: GRP: Lot 19 AMCTR

Manufacturer Information

Manufacturer Name: Lockheed Martin	Manufacturer Location: Fort Worth, TX
Administrative Leadtime (in Months): 3	Production Leadtime (in Months): 24

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates			Dec 2023	Dec 2024	Dec 2025	Dec 2026	
Delivery Dates			Dec 2025	Dec 2026	Dec 2027	Dec 2028	

Installation Information

Method of Implementation: Contract, Depot Artisans:: Installation Name: Lot 19 AMCTR

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	20 / 9.000	- / -	0 / 0.000	20 / 9.000
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	24 / 10.800	0 / 0.000	24 / 10.800
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	23 / 10.350	0 / 10.800	23 / 21.150
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	24 / 12.150	24 / 12.150
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	21 / 10.710	21 / 10.710
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	20 / 9.000	47 / 21.150	45 / 33.660	112 / 63.810

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot	
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4			
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	7	7	4	12	14	17	45	112
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	7	7	4	7	14	16	51	112

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0593 / F-35 CV Series	Modification Number / Title: 2 / F-35 CV BLOCK 4 UPGRADE (OSIP 011-20)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Installation 5 of 5: GRP: DMS DTIP

Manufacturer Information

Manufacturer Name: Lockheed Martin	Manufacturer Location: Fort Worth, TX
Administrative Leadtime (in Months): 6	Production Leadtime (in Months): 24

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates	Mar 2022						
Delivery Dates	Mar 2024						

Installation Information

Method of Implementation: Contract, Depot Artisans:: Installation Name: DMS DTIP

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	11 / 0.880	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	11 / 0.880
FY 2022	- / -	- / -	- / -	11 / 0.880	0 / 0.000	11 / 0.880	- / -	- / -	- / -	- / -	0 / 0.000	11 / 0.880
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	11 / 0.880	11 / 0.880	0 / 0.000	11 / 0.880	- / -	- / -	- / -	- / -	0 / 0.000	22 / 1.760

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	3	3	3	2	3	3	3	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Out	-	-	-	-	-	-	3	3	3	2	3	3	3	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Footnotes:
 (1) Other support: Tooling required to increase manufacturing capability to ensure modification requirements can be met, regardless of production and sustainment needs for Block 4 parts. PB24 reflects the necessary investments to achieve Lot 17 and Lot 18 retrofit kit production capacity of 216 kits per year.

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0593 / F-35 CV Series	Modification Number / Title: 3 / F-35 CV PROPULSION (OSIP 013-20)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	9.533	3.585	3.698	2.301	0.000	2.301	1.601	7.177	2.196	2.731	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	9.533	3.585	3.698	2.301	0.000	2.301	1.601	7.177	2.196	2.731	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	9.533	3.585	3.698	2.301	0.000	2.301	1.601	7.177	2.196	2.731	Continuing	Continuing
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

This Propulsion Program is established for the correction of engine related readiness degraders impacting F-35 Reliability Maintainability and Availability (RM&A), production deficiencies, obsolescence, and reduction of life-cycle costs. These modifications will be accomplished by field or depot retrofit and implemented to coincide with resources and aircraft availability. To meet the goal of increasing readiness, the propulsion systems must be modified as critical RM&A issues are identified. The reliability and readiness initiatives included in the Propulsion OSIP are projected to have a significant positive impact to the F-35 CTOL F-135 engine. Funds will be used to manage, prepare, process and incorporate Engineering Change Proposals.

Specifically, this OSIP will implement hardware and software upgrades necessary to maintain credible and capable F-35 CTOL F-135 engines. These upgrades include Pigtail removal/FIVV Bushing Replacement (ECP 21ZA035), Hybrid Stator 2 w/ IDAS (ECP 13ZA393), 2/3 Scavenge Tube Durability (ECP 12ZW431), Harness Bracket Mistake Proofing (ECP 20ZA056), No. 5, No. 3 Idler & LSF gear retrofit (ECP 17ZA083), Lockwireless Fittings - Common Fan Power (ECP 09ZA355B), Exciter Reliability Improvement (ECP 11ZZ025), F135 G2.4 V9.4C Ice Protection System (IPS) Controller (ECP 16ZA014A), CTOL Adapter 4136900's (ECP 12ZS014), Gearbox MAD (Multi-Attitude-Deaerator) Redesign (ECP 14ZW342D), F135 Nosecone Heater and FIC Harness Removal w/ inline adapter (ECP 15ZA103), Module Nozzle Sync Ring Tilt - Wear (ECP 17ZA267), F135 MFTV TRANSFER EHSV REDESIGN (ECP 17ZZ032), MFTV Bellows Redesign (ECP 17ZZ033), N1 Probe Adaptor and Sleeve Redesign (ECP 20ZA028), F135 HPC Sync Ring Bumper Fastener Redesign (ECP 21ZA289D), and Integrated Power Package Retrofit (ECP 09ZA193G).

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Exhibit P-3a, Individual Modification: PB 2024 Navy										Date: March 2023			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0593 / F-35 CV Series						Modification Number / Title: 3 / F-35 CV PROPULSION (OSIP 013-20)			
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: F-35 CV			Modification Type: Engine Related Modifications				Related RDT&E PEs: 0604800N, 0604840N						
Financial Plan <small>(* Indicates the modification is being installed organically and no installation funds are required.)</small>	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
1.1.1) ECP 21ZA035 Pigtail removal/FIVV Bushing Replacement - NonOrganic <i>Installation 1 of 2</i>	- / -	3 / 0.008	4 / 0.010	7 / 0.018	- / -	7 / 0.018	6 / 0.015	3 / 0.008	- / -	- / -	- / -	23 / 0.059	
1.1.2) ECP 13ZA393 Hybrid Stator 2 w/ IDAS - NonOrganic <i>Installation 1 of 2</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	20 / 2.240	4 / 0.448	15 / 1.275	77 / 8.624	116 / 12.587	
1.1.3) ECP 12ZW431 2/3 Scavenge Tube Durability - NonOrganic <i>Installation 1 of 2</i>	- / -	- / -	- / -	- / -	- / -	- / -	21 / 0.011	23 / 0.012	24 / 0.012	27 / 0.014	17 / 0.009	112 / 0.058	
1.1.4) ECP 20ZA056 Harness Bracket Mistake Proofing - NonOrganic <i>Installation 1 of 2</i>	- / -	- / -	- / -	13 / 0.001	- / -	13 / 0.001	14 / 0.001	15 / 0.002	18 / 0.002	17 / 0.002	- / -	77 / 0.008	
1.1.5) ECP-17ZA083 No. 5, No. 3 Idler & LSFP gear retrofit - NonOrganic <i>Installation 1 of 2</i>	- / -	1 / 0.016	1 / 0.016	1 / 0.016	- / -	1 / 0.016	1 / 0.016	1 / 0.016	1 / 0.016	5 / 0.080	117 / 1.872	128 / 2.048	
1.1.6) ECP 09ZA355B Lockwireless Fittings - Common Fan Power (Unit Level) - NonOrganic <i>Installation 1 of 2</i>	- / -	20 / 0.300	19 / 0.285	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	39 / 0.585	
1.1.7) ECP-09ZA355B Lockwireless Fittings - Common Fan Power (Depot Level) - NonOrganic <i>Installation 1 of 2</i>	- / -	9 / 0.063	11 / 0.077	13 / 0.091	- / -	13 / 0.091	5 / 0.035	- / -	- / -	- / -	39 / 0.273	77 / 0.539	
1.1.8) ECP-11ZZ025 Exciter Reliability Improvement - NonOrganic <i>Installation 1 of 2</i>	- / -	4 / 0.144	1 / 0.036	3 / 0.108	- / -	3 / 0.108	4 / 0.144	5 / 0.180	8 / 0.288	2 / 0.072	- / -	27 / 0.972	
1.1.9) ECP-12ZS014 CTOL 4136900's Adapter - NonOrganic <i>Installation 1 of 2</i>	- / -	- / -	- / -	2 / 0.028	- / -	2 / 0.028	2 / 0.028	3 / 0.042	3 / 0.042	1 / 0.014	8 / 0.112	19 / 0.266	
1.1.10) ECP 15ZA103 Nosecone Heater and FIC Harness Removal w/ inline adapter - NonOrganic <i>Installation 1 of 2</i>	- / -	20 / 0.120	17 / 0.102	17 / 0.102	- / -	17 / 0.102	3 / 0.018	- / -	- / -	- / -	- / -	57 / 0.342	
1.1.11) ECP-17ZA267 Module Nozzle Sync Ring Tilt - Wear - NonOrganic <i>Installation 1 of 2</i>	- / -	8 / 0.110	5 / 0.065	5 / 0.065	- / -	5 / 0.065	5 / 0.065	5 / 0.065	5 / 0.065	5 / 0.065	13 / 0.163	51 / 0.663	
1.1.12) ECP-17ZZ032 F135 MFTV Transfer EHSV Redesign - NonOrganic <i>Installation 1 of 2</i>	- / -	7 / 0.105	7 / 0.105	7 / 0.105	- / -	7 / 0.105	7 / 0.105	7 / 0.105	7 / 0.105	7 / 0.105	- / -	49 / 0.735	
1.1.13) ECP-17ZZ033 MFTV Bellows Redesign - NonOrganic <i>Installation 1 of 2</i>	- / -	10 / 0.104	8 / 0.008	8 / 0.008	- / -	8 / 0.008	8 / 0.008	8 / 0.008	5 / 0.005	- / -	- / -	47 / 0.141	
1.1.14) ECP-20ZA028 N1 Probe Adaptor and Sleeve Redesign - NonOrganic <i>Installation 1 of 2</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	11 / 0.011	13 / 0.013	15 / 0.015	16 / 0.016	73 / 0.073	128 / 0.128

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy										Date: March 2023				
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0593 / F-35 CV Series					Modification Number / Title: 3 / F-35 CV PROPULSION (OSIP 013-20)				
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:							
Models of Systems Affected: F-35 CV				Modification Type: Engine Related Modifications				Related RDT&E PEs: 0604800N, 0604840N						
Financial Plan <small>(*) Indicates the modification is being installed organically and no installation funds are required.</small>	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total		
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)		
1.1.15) ECP 09ZA193G Integrated Power Package Retrofit - NonOrganic <i>Installation 1 of 2</i>	- / -	7 / 0.210	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	7 / 0.210		
1.1.16) ECP 21ZA289D F135 HPC Sync Ring Bumper Fastener Redesign - Organic ^(*)	- / -	- / -	- / -	- / -	- / -	- / -	- / -	29 / 3.031	- / -	- / -	- / -	29 / 3.031		
1.2.1) Propulsion Installation Kit Non-Recurring - Organic ^(*)	- / -	- / 0.105	- / 0.109	- / 0.110	- / -	- / 0.110	- / 0.185	- / 0.183	- / 0.117	- / 0.119	Continuing	Continuing		
2.1.1) Prior Year Propulsion B Kits - NonOrganic ⁽²⁾ <i>Installation 2 of 2</i>	84 / 6.683	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	84 / 6.683		
2.1.3) ECP-14ZW342D Gearbox MAD (Multi-Attitude-Deaerator) Redesign - NonOrganic <i>Installation 2 of 2</i>	- / -	5 / 0.020	5 / 0.020	5 / 0.020	- / -	5 / 0.020	5 / 0.020	5 / 0.020	5 / 0.020	1 / 0.004	3 / 0.012	34 / 0.136		
2.2.1) Propulsion Installation Equipment Non-Recurring - Organic ^(*)	- / -	- / 0.014	- / 0.015	- / 0.015	- / -	- / 0.015	- / 0.015	- / 0.016	- / 0.016	- / 0.016	Continuing	Continuing		
Subtotal: Procurement	- / 6.683	- / 1.319	- / 0.848	- / 0.687	- / -	- / 0.687	- / 0.677	- / 5.941	- / 1.151	- / 1.782	Continuing	Continuing		
Support														
3.1) Other Support	- / 0.150	- / 0.316	- / 0.297	- / 0.296	- / -	- / 0.296	- / 0.300	- / 0.567	- / 0.333	- / 0.313	Continuing	Continuing		
Subtotal: Support	- / 0.150	- / 0.316	- / 0.297	- / 0.296	- / -	- / 0.296	- / 0.300	- / 0.567	- / 0.333	- / 0.313	Continuing	Continuing		
Installation														
Installation 1 of 2: GRP: Propulsion Install Kits	- / -	- / -	- / 2.507	- / 1.272	- / 0.000	- / 1.272	- / 0.578	- / 0.623	- / 0.666	- / 0.590	- / 3.171	- / 9.407		
Installation 2 of 2: GRP: Propulsion Install Equipment	- / 2.700	- / 1.950	- / 0.046	- / 0.046	- / 0.000	- / 0.046	- / 0.046	- / 0.046	- / 0.046	- / 0.046	- / 0.039	- / 4.965		
Subtotal: Installation	- / 2.700	- / 1.950	- / 2.553	- / 1.318	- / -	- / 1.318	- / 0.624	- / 0.669	- / 0.712	- / 0.636	- / 3.210	- / 14.372		
Total														
Total Cost (Procurement + Support + Installation)	9.533	3.585	3.698	2.301	0.000	2.301	1.601	7.177	2.196	2.731	Continuing	Continuing		

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0593 / F-35 CV Series	Modification Number / Title: 3 / F-35 CV PROPULSION (OSIP 013-20)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Installation 1 of 2: GRP: Propulsion Install Kits

Manufacturer Information

Manufacturer Name: TBD ⁽³⁾	Manufacturer Location: TBD
Administrative Leadtime (in Months): 3	Production Leadtime (in Months): 10

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates	Dec 2021	Dec 2022	Dec 2023	Dec 2024	Dec 2025	Dec 2026	Dec 2027
Delivery Dates	Oct 2022	Oct 2023	Oct 2024	Oct 2025	Oct 2026	Oct 2027	Oct 2028

Installation Information

Method of Implementation: Various:: Installation Name: Propulsion Install Kits

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	89 / 2.507	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	89 / 2.507
FY 2023	- / -	- / -	- / -	73 / 1.272	0 / 0.000	73 / 1.272	- / -	- / -	- / -	- / -	0 / 0.000	73 / 1.272
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	76 / 0.578	- / -	- / -	- / -	0 / 0.000	76 / 0.578
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	87 / 0.623	- / -	- / -	0 / 0.000	87 / 0.623
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	103 / 0.666	- / -	0 / 0.000	103 / 0.666
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	90 / 0.590	0 / 0.000	90 / 0.590
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	95 / 0.611	95 / 0.611
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	344 / 2.560	344 / 2.560
Total	- / -	- / -	89 / 2.507	73 / 1.272	0 / 0.000	73 / 1.272	76 / 0.578	87 / 0.623	103 / 0.666	90 / 0.590	439 / 3.171	957 / 9.407

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	21	22	23	23	17	18	18	20	18	19	18	21	20	21	22	24	24	26	26	27	21	22	23	24	439	957
Out	-	-	-	-	-	21	22	23	23	17	18	18	20	18	19	18	21	20	21	22	24	24	26	26	27	21	22	23	24	439	957

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0593 / F-35 CV Series	Modification Number / Title: 3 / F-35 CV PROPULSION (OSIP 013-20)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Installation 2 of 2: GRP: Propulsion Install Equipment

Manufacturer Information

Manufacturer Name: TBD ⁽⁴⁾	Manufacturer Location: TBD
Administrative Leadtime (in Months): 3	Production Leadtime (in Months): 10

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates	Dec 2021	Dec 2022	Dec 2023	Dec 2024	Dec 2025	Dec 2026	Dec 2027
Delivery Dates	Oct 2022	Oct 2023	Oct 2024	Oct 2025	Oct 2026	Oct 2027	Oct 2028

Installation Information

Method of Implementation: Various:: Installation Name: Propulsion Install Equipment

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	54 / 2.700	30 / 1.950	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	84 / 4.650
FY 2022	- / -	- / -	0 / 0.046	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	- / 0.046
FY 2023	- / -	- / -	- / -	5 / 0.046	0 / 0.000	5 / 0.046	- / -	- / -	- / -	- / -	0 / 0.000	5 / 0.046
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	5 / 0.046	- / -	- / -	- / -	0 / 0.000	5 / 0.046
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	5 / 0.046	- / -	- / -	0 / 0.000	5 / 0.046
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	5 / 0.046	- / -	0 / 0.000	5 / 0.046
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	5 / 0.046	0 / 0.000	5 / 0.046
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.009	1 / 0.009
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3 / 0.030	3 / 0.030
Total	54 / 2.700	30 / 1.950	0 / 0.046	5 / 0.046	0 / 0.000	5 / 0.046	5 / 0.046	5 / 0.046	5 / 0.046	5 / 0.046	4 / 0.039	113 / 4.965

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	54	-	10	10	10	1	1	1	2	1	1	1	2	1	1	1	2	1	1	1	2	1	1	1	2	1	1	1	2	4	118
Out	40	14	-	10	10	11	1	1	2	1	1	1	2	1	1	1	2	1	1	1	2	1	1	1	2	1	1	1	2	4	118

Footnotes:
⁽²⁾ Quantities reflect multiple Engineering Change Proposals (ECPs) for propulsion and are not a one for one relationship to the aircraft. These ECP's include, lock wireless fittings, MFTV bellows redesign, CP12 fuel tube redesign, and pigtail removal/FIVV bushing replacement.

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0593 / F-35 CV Series	Modification Number / Title: 3 / F-35 CV PROPULSION (OSIP 013-20)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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⁽³⁾ A Kit install quantities, and contract times are a roll-up based upon general induction of aircraft in each year. Each kit contains a range of ECP's depending on the aircraft LRIP configuration.
⁽⁴⁾ B Kit install quantities, and contract times are a roll-up based upon general induction of aircraft in each year. Each kit contains a range of ECP's depending on the aircraft LRIP configuration.

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0593 / F-35 CV Series	Modification Number / Title: 4 / F-35 CV CORRECTION OF DEFICIENCIES (OSIP 001-21)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	49.880	37.698	47.273	48.333	0.000	48.333	81.412	88.707	100.407	126.421	337.853	917.984
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	49.880	37.698	47.273	48.333	0.000	48.333	81.412	88.707	100.407	126.421	337.853	917.984
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	49.880	37.698	47.273	48.333	0.000	48.333	81.412	88.707	100.407	126.421	337.853	917.984
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

F-35C Correction of Deficiencies provides near and long-term improvements to fielded F-35C jets and focuses on correcting documented deficiencies related to safety, maintainability, life limits, and aircraft systems. Funds are required to manage, prepare, process and incorporate Engineering Change Proposals (ECP) to sustain and improve F-35C system operations. Artisans at the organic depot and contractor field teams perform the installation of these modifications and selected component changes into the Air System. In order to meet emerging deficiencies, the airframe and integrated systems require modifications to resolve the identified deficiencies.

This major thrust under this OSIP is Structural Life Limited Parts 2 (SLLP2) deficiencies. The SLLP2 program focuses on resolving identified life limits up to 4,000 flight hours. Currently, 50 ECPs make up the SLLP2 program scope, requiring a retrofit solution to remove the life limit constraints.

Additionally, this OSIP covers the SLLP2 follow-on program known as SLLP3. SLLP3 is the follow on effort to resolve life limits from 4,000 to 8,000 hours, enabling the aircraft to meet full life of 8,000 flight hours. The SLLP3 program starts Non-Recurring Engineering (NRE) in FY2022, material buys in FY2025 and installations in FY2027.

In FY2024, the program will be establishing the full scope of modifications for SLLP3. Teardown of full-scale durability test assets completed in October 2018 with analysis continuing through FY2022. After analysis, the program will conduct NRE to develop the engineering solutions to fix the technical issues. In FY2024, the program will perform NRE to develop the highest priority SLLP3 ECPs. The program has begun inputting the initial SLLP3 ECPs into the tables below, but the program expects to identify additional Engineering Change Proposals (ECP) during analysis and through continued fleet operations.

In FY2022 and continuing through the FYDP, Laser Shock Peening (LSP) stood-up at Ogden Air Logistics Complex to support F-35B and F-35C requirements. LSP is currently necessary to resolve one F-35C ECP on the FS-496 Bulkhead. LSP is a process where a unique high-energy laser is fired at an ablative material on the surface of a metal part to generate pressure pulses up to one million pounds per square inch, which send shock waves through the part. Multiple firings of the laser in a pre-defined surface pattern will impart a layer of residual compressive stress that is up to four times deeper than that attainable from conventional peening treatments. Deeper levels of compressive stress provide greater resistance to potential fatigue and corrosion failures.

SLLP material costs differences between first year and subsequent years is due to cost share agreements between the government and the prime contractor. The SLLP 2 ECP phases implement the following ECPs listed below.

- ECP-0327 - F-35C SPAR 5 OUTBOARD, WING [LRIP 4-7]
- ECP-0341 - F-35C FS402 OUTBOARD / INBOARD JOINT [LRIP 4-8]

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0593 / F-35 CV Series	Modification Number / Title: 4 / F-35 CV CORRECTION OF DEFICIENCIES (OSIP 001-21)
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:
<p>ECP-0412 - F-35C BL23 FS425 SPLICE [LRIP 4-8] ECP-0432 - F-35C BL12 LONGERON [LRIP 4-9] ECP-0537 - F-35C REAR SPAR [LRIP 4-5] ECP-0583 - F-35C FS496-518 LONGERON, TAIL HOOK, RH [LRIP 4-6] ECP-0690 - F-35C FS496 BULKHEAD [LSP] [LRIP 4-10, 11 (5)] ECP-0705 - F-35C FS518 LOWER BULKHEAD (CP01) [LRIP 4-8] ECP-0731 - F-35C FS427 BULKHEAD [LRIP 4-11] ECP-0736 - F-35C FS496 BULKHEAD [LRIP 4-5] ECP-0795 - F-35C MAIN LANDING GEAR RETRACT ACTUATOR SUPPORT [LRIP 4-11] ECP-0817 - F-35C HORIZONTAL TAIL [LRIP 4-10] ECP-0864 - F-35C BL24 LONGERON AND SPLICE - FS425 [LRIP 4-11] ECP-0883 - F-35C CHINE SPLICE & STRAP LHS AND RHS [LRIP 4-11] ECP-0916 - F-35C FS537 BULKHEAD [LRIP 4-12] ECP-0930 - F-35C F2 FUEL FLOOR [LRIP 4-11] ECP-0959 - F-35C BAY 22.5 AND IPP SHEAR WEBS, FS496-FS556 [LRIP 4-12] ECP-1299 - F-35C CENTER FUSELAGE FS346 LOWER FRAME [LRIP 4-13]</p> <p>JUSTIFICATION: Funding under this OSIP in FY2024 is also required to support Structural Life Limited Mods material, installation labor and associated support costs for F-35C modification inductions. This includes modifications management, depot site support, and depot over and above activities. Over and above tasks consist of supplementary actions necessary to safely return inducted aircraft to flight status prior to completing the modification event.</p> <p>F-35C depot aircraft installation costs will increase FY2024 due to a rise in the number of inductions and the increase in number of modifications authorized to be installed during each induction. F-35C SLLP2 modifications are projected to complete in 2034. Delays in funding will put that completion date at risk.</p> <p>DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES LSP capability stood up at Ogden Air Logistics Center in January 2022 with the first F-35C induction in summer 2022. First depot induction for LSP occurred in June 2020 at FRC-E for F-35B aircraft.</p>		

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0593 / F-35 CV Series	Modification Number / Title: 4 / F-35 CV CORRECTION OF DEFICIENCIES (OSIP 001-21)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Models of Systems Affected: F-35 CV	Modification Type: Capability Improvement	Related RDT&E PEs: 0604800N, 0604840N
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Financial Plan	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)

Procurement

Modification Item 1 of 3: SLLP 2												
A Kits												
Recurring												
1.1.1) ECP-0257 - CV RUDDER HINGE 2 RETRO - NonOrganic	18 / 0.435	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	18 / 0.435
1.1.2) ECP-0327 F-35C - SPAR 5 OUTBD, WING - NonOrganic	22 / 1.636	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	22 / 1.636
1.1.3) ECP-0341 CV FS402 OUTBD/INBD JOINT LIMITED LIFE (MOD) - NonOrganic	26 / 2.603	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	26 / 2.603
1.1.4) ECP-0412 F-35C- BL12 FS425 SPLICE - NonOrganic	26 / 0.004	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	26 / 0.004
1.1.5) ECP-0432 - F-35C BL 12 LONGERON - NonOrganic	28 / 0.380	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	28 / 0.380
1.1.6) ECP-0503 - F-35C, UPPER FORWARD ENGINE MOUNT - NonOrganic	11 / 0.118	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	11 / 0.118
1.1.7) ECP-0537 - F-35C, REAR SPAR - NonOrganic	8 / 0.233	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	8 / 0.233
1.1.8) ECP-0558 - F-35C, PYLON STATION 3 AFT RIB - NonOrganic	8 / 0.058	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	8 / 0.058
1.1.9) ECP-0583 - F-35C, FS496-518 LONGERON, TAIL HOOK, RH - NonOrganic	13 / 0.050	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	13 / 0.050
1.1.10) ECP-0690 F-35C FS496 BULKHEAD - NonOrganic	30 / 0.012	5 / 0.002	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	35 / 0.014
1.1.11) ECP-0691 - F-35C CV AFT BOOM KICKED KEEL - NonOrganic	28 / 0.236	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	28 / 0.236
1.1.12) ECP-0705 F-35C FS518 LOWER BULKHEAD - NonOrganic	26 / 0.116	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	26 / 0.116
1.1.13) ECP-0731 - F-35C, FS472 BULKHEAD - NonOrganic	35 / 0.009	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	35 / 0.009
1.1.14) ECP-0736 - F-35C, BULKHEAD FS496 - NonOrganic	11 / 0.091	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	11 / 0.091
1.1.15) ECP-0795 - F-35C,MLG RETRACT ACTUATOR SUPPORT FTG - NonOrganic	38 / 0.137	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	38 / 0.137
1.1.16) ECP-0810 - F-35C, FS518 LOWER BULKHEAD - NonOrganic	30 / 0.300	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	30 / 0.300
1.1.17) ECP-0817 - F-35C HORIZONTAL TAIL - NonOrganic	40 / 0.063	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	40 / 0.063

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Exhibit P-3a, Individual Modification: PB 2024 Navy										Date: March 2023			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0593 / F-35 CV Series					Modification Number / Title: 4 / F-35 CV CORRECTION OF DEFICIENCIES (OSIP 001-21)			
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: F-35 CV				Modification Type: Capability Improvement				Related RDT&E PEs: 0604800N, 0604840N					
Financial Plan	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
1.1.18) ECP-0824 F-35C FS383 LOWER FRAME - NonOrganic	14 / 0.120	11 / 0.189	8 / 0.137	6 / 0.137	- / -	6 / 0.137	- / -	- / -	- / -	- / -	- / -	39 / 0.583	
1.1.19) ECP-0864 F-35C BL 24 LONGERON & SPLICE - FS 425 - NonOrganic	36 / 0.006	3 / 0.001	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	39 / 0.007	
1.1.20) ECP-0871 - F-35C F2 FUEL FLOORS - NonOrganic	26 / 0.028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	26 / 0.028	
1.1.21) ECP-0872 - F-35C - THRUST MOUNT SHEAR WEB - NonOrganic	22 / 0.035	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	22 / 0.035	
1.1.22) ECP-0883 CV CHINE SPLICE & STRAP LHS AND RHS - NonOrganic	14 / 0.654	11 / 0.327	11 / 0.514	8 / 0.374	- / -	8 / 0.374	- / -	- / -	- / -	- / -	- / -	44 / 1.869	
1.1.23) ECP-0916 - F-35C FS 537 BULKHEAD - NonOrganic	26 / 1.904	13 / 0.957	13 / 0.958	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	52 / 3.819	
1.1.24) ECP-0920 F-35C FEED TANK UPPER COVERS - NonOrganic	18 / 0.126	17 / 0.119	17 / 0.210	11 / 0.154	- / -	11 / 0.154	- / -	- / -	- / -	- / -	- / -	63 / 0.609	
1.1.25) ECP-0930 F2 FUEL FLOOR LIMITED LIFE, RETROFIT PHASE 2 - NonOrganic	12 / 0.192	10 / 0.160	10 / 0.160	10 / 0.160	- / -	10 / 0.160	- / -	- / -	- / -	- / -	- / -	42 / 0.672	
1.1.26) ECP-0959 F-35C SHEAR WEBS, BAY 22.5 & IPP, FS496-FS556 - NonOrganic	43 / 0.021	8 / 0.004	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	51 / 0.025	
1.1.27) ECP-1081 F-35C WING BOX FS 503 SUPPORT FRAME - NonOrganic	28 / 0.343	14 / 0.172	8 / 0.099	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	50 / 0.614	
1.1.28) ECP-1167 F-35C GLOVE FAIRING - NonOrganic	4 / 0.072	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4 / 0.072	
1.1.29) ECP-1266 F-35C UPPER INLET DUCT LONGERON - NonOrganic	- / -	18 / 0.324	18 / 0.324	18 / 0.324	- / -	18 / 0.324	18 / 0.324	13 / 0.234	- / -	- / -	- / -	85 / 1.530	
1.1.30) ECP-1299 F-35C CENTER FUSELAGE FS 346 LOWER FRAME - NonOrganic	16 / 0.144	16 / 0.261	16 / 0.288	15 / 0.270	- / -	15 / 0.270	- / -	- / -	- / -	- / -	- / -	63 / 0.963	
1.1.31) ECP-1376 F-35C FS-365 LOWER REGION PARTS - NonOrganic	- / -	- / -	17 / 0.306	17 / 0.306	- / -	17 / 0.306	17 / 0.306	17 / 0.306	17 / 0.306	- / -	4 / 0.072	89 / 1.602	
1.1.32) ECP-1381 F-35C FS-425 BULKHEAD - NonOrganic	- / -	- / -	17 / 0.306	17 / 0.306	- / -	17 / 0.306	17 / 0.306	17 / 0.306	17 / 0.306	- / -	4 / 0.072	89 / 1.602	
1.1.33) ECP-1423 F-35C FS 472-496 RETRACT ACTUATOR FITTING - NonOrganic	- / -	- / -	17 / 0.306	17 / 0.306	- / -	17 / 0.306	17 / 0.306	17 / 0.306	17 / 0.306	- / -	4 / 0.072	89 / 1.602	
1.1.34) ECP-1567 F-35C FS-450 BULKHEAD - NonOrganic	- / -	- / -	17 / 0.306	17 / 0.306	- / -	17 / 0.306	17 / 0.306	17 / 0.306	7 / 0.126	- / -	- / -	75 / 1.350	
1.1.35) ECP-1568 F-35C 2WSH64175 Nacelle Ventilation Intake (NVI) - NonOrganic	- / -	- / -	- / -	- / -	- / -	- / -	10 / 0.243	10 / 0.180	5 / 0.090	- / -	- / -	25 / 0.513	
1.1.36) ECP-1570 F-35C 2VSH55112 Rudder Spar - NonOrganic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	38 / 0.342	43 / 0.387	30 / 0.540	5 / 1.962	116 / 3.231	
1.1.37) ECP-1571 - F-35C 2WSH44556 FS 556 Bulkhead - NonOrganic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	27 / 0.243	27 / 0.486	27 / 0.486	54 / 0.972	135 / 2.187	

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Exhibit P-3a, Individual Modification: PB 2024 Navy										Date: March 2023			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0593 / F-35 CV Series					Modification Number / Title: 4 / F-35 CV CORRECTION OF DEFICIENCIES (OSIP 001-21)			
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: F-35 CV				Modification Type: Capability Improvement				Related RDT&E PEs: 0604800N, 0604840N					
Financial Plan	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
1.1.38) ECP-1572 F-35C 2WSH44011 BL 0 Shear Web FS 518-FS537 - NonOrganic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	27 / 0.243	27 / 0.486	27 / 0.486	38 / 0.684	119 / 1.899	
1.1.39) ECP-1573 F-35C 2WSH34496 FS 496 Bulkhead - NonOrganic	- / -	- / -	- / -	- / -	- / -	- / -	27 / 0.243	27 / 0.486	27 / 0.486	27 / 0.486	6 / 0.108	114 / 1.809	
1.1.40) ECP-1574 - F-35C 2WSH74104 FS 450-472 Fuel Floor RHS - NonOrganic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	33 / 0.342	34 / 0.342	33 / 0.594	19 / 2.340	119 / 3.618	
1.1.41) ECP-1575 F-35C FS 472 Bulkhead - NonOrganic	- / -	- / -	- / -	27 / 0.243	- / -	27 / 0.243	27 / 0.486	27 / 0.486	27 / 0.486	27 / 0.486	27 / 0.486	162 / 2.673	
1.1.42) ECP-1576 F-35C BL 74 Shear Web - NonOrganic	- / -	- / -	- / -	27 / 0.243	- / -	27 / 0.243	27 / 0.486	27 / 0.486	4 / 0.072	- / -	- / -	85 / 1.287	
1.1.43) ECP-1578 F-35C 2WSH34482/3 FS 484 Ribs, LH/RH - NonOrganic	- / -	- / -	- / -	- / -	- / -	- / -	27 / 0.243	27 / 0.486	27 / 0.486	8 / 0.144	- / -	89 / 1.359	
1.1.44) ECP-1579 F-35C 2WSH44519 FS 518 Lower Bulkhead - NonOrganic	- / -	- / -	- / -	- / -	- / -	- / -	27 / 0.243	27 / 0.486	27 / 0.486	18 / 0.324	- / -	99 / 1.539	
1.1.45) ECP-1580 F-35C FS 527 Frames, LH/RH - NonOrganic	- / -	- / -	- / -	27 / 0.243	- / -	27 / 0.243	27 / 0.486	27 / 0.486	4 / 0.072	- / -	4 / 0.046	89 / 1.333	
1.1.46) ECP-1657 - F-35C FS 575 Center Arch, RHS - NonOrganic	- / -	- / -	- / -	27 / 0.243	- / -	27 / 0.243	27 / 0.486	27 / 0.486	27 / 0.486	27 / 0.486	- / -	135 / 2.187	
1.1.47) ECP-XXXC F-35C Flaperon Actuator Support Rib - NonOrganic	- / -	- / -	- / -	27 / 0.243	- / -	27 / 0.243	27 / 0.486	27 / 0.486	27 / 0.486	27 / 0.486	- / -	135 / 2.187	
1.1.48) ECP-XXXE F-35C NLG MOORING RINGS AND LIFE LIMITS DUE TO NWS MOTOR - NonOrganic	- / -	- / -	- / -	27 / 0.243	- / -	27 / 0.243	27 / 0.486	27 / 0.486	27 / 0.486	27 / 0.486	27 / 0.486	162 / 2.673	
1.1.49) ECP-XXXI F-35C SPAR 2 FITTING, SPAR 3, AND AFT SECTION RIB 5 LOW LIFE - NonOrganic	- / -	- / -	- / -	- / -	- / -	- / -	27 / 0.243	27 / 0.486	27 / 0.486	27 / 0.486	27 / 0.486	135 / 2.187	
1.1.50) ECP-XXXK F-35C 2WSH54137 Kick Rib, Spar 5 to front Spar - NonOrganic	- / -	- / -	- / -	- / -	- / -	- / -	27 / 0.243	27 / 0.486	27 / 0.486	27 / 0.486	27 / 0.486	135 / 2.187	
1.1.51) ECP-XXXM F-35C FS 365 LOWER REGION LIMITED LIFE PARTS - MOD - NonOrganic	- / -	- / -	- / -	- / -	- / -	- / -	27 / 0.243	27 / 0.486	27 / 0.486	27 / 0.486	27 / 0.486	135 / 2.187	
1.1.52) ECP-XXXP F-35C 2WSH54210 Wing Spar # 3 - NonOrganic	- / -	- / -	- / -	- / -	- / -	- / -	27 / 0.243	27 / 0.486	27 / 0.486	27 / 0.486	27 / 0.486	135 / 2.187	
1.1.53) ECP-XXXQ - F-35C 2WSH54226 Wing Spar #7 - NonOrganic	- / -	- / -	- / -	- / -	- / -	- / -	27 / 0.243	27 / 0.486	27 / 0.486	27 / 0.486	27 / 0.486	135 / 2.187	
1.1.54) ECP-XXXR F-35C 2WSH91016 OBW Spar 7A - NonOrganic	- / -	- / -	- / -	- / -	- / -	- / -	27 / 0.243	27 / 0.486	27 / 0.486	27 / 0.486	27 / 0.486	135 / 2.187	
1.1.55) ECP-XXXS F-35C WING BOX SPAR 9 - NonOrganic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	27 / 0.243	27 / 0.486	27 / 0.486	54 / 0.972	135 / 2.187	
1.1.56) ECP-XXXT F35C HT SPAR 4 AND 5 FITTING LOW LIFE - NonOrganic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	27 / 0.243	27 / 0.486	27 / 0.486	54 / 0.972	135 / 2.187	
1.1.57) ECP-XXXV F-35C 2WSH54239 Wing Rear Spar - NonOrganic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	27 / 0.243	27 / 0.486	27 / 0.486	54 / 0.972	135 / 2.187	

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0593 / F-35 CV Series	Modification Number / Title: 4 / F-35 CV CORRECTION OF DEFICIENCIES (OSIP 001-21)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Models of Systems Affected: F-35 CV	Modification Type: Capability Improvement	Related RDT&E PEs: 0604800N, 0604840N
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Financial Plan	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
1.1.58) ECP-XXXW F-35C 2WSH54313 Flaperon Actuator Support Fitting - NonOrganic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	27 / 0.243	27 / 0.486	27 / 0.486	54 / 0.972	135 / 2.187
1.1.59) ECP-XXXX F-35C 2ASH12006 Chine Longeron Lower Splice Plate - NonOrganic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	27 / 0.243	27 / 0.486	27 / 0.486	54 / 0.972	135 / 2.187
1.1.60) ECP-XXXY FS 425 BULKHEAD FUEL FLOOR FLANGE - NonOrganic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	27 / 0.243	27 / 0.486	27 / 0.486	54 / 0.972	135 / 2.187
1.1.61) ECP-XXAA F-35C 2WSH54111/2 Pylon 3/9 Aft Rib - NonOrganic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	27 / 0.243	27 / 0.486	27 / 0.486	54 / 0.972	135 / 2.187
1.1.62) ECP-XXAB F-35C 2WSH91028 OBW Spar 5B - NonOrganic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	33 / 0.297	33 / 0.297	33 / 0.594	62 / 2.007	161 / 3.195
1.1.63) ECP-XXAD F-35C 2WSH54229 Wing Spar #8 - NonOrganic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	33 / 0.297	33 / 0.297	33 / 0.594	62 / 2.007	161 / 3.195
1.1.64) ECP-XXAE F-35C 2WSH54229 Wing Spar #9 - NonOrganic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	33 / 0.297	33 / 0.297	33 / 0.594	62 / 2.007	161 / 3.195
1.1.65) ECP-XXAG F-35C 2WSH91079 OBW Spar 4B - NonOrganic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	33 / 0.297	34 / 0.342	34 / 0.612	60 / 2.340	161 / 3.591
1.1.66) ECP-XXAH F-35C WING BOX BL 164 KICK RIB SERVICE LIFE - NonOrganic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	38 / 0.342	34 / 0.342	34 / 0.612	81 / 2.340	187 / 3.636
1.1.67) ECP-XXAJ - F-35C 2ASH12182 BL 0 Longeron Lower Splice Plate - NonOrganic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	38 / 0.342	34 / 0.342	34 / 0.612	81 / 2.340	187 / 3.636
1.1.68) ECP-XXAK F-35C 2WSH24450 FS 450 Bulkhead - NonOrganic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	38 / 0.342	34 / 0.342	34 / 0.612	81 / 2.340	187 / 3.636
1.1.69) ECP-XXAL F-35C WING BOX SPAR 10 - NonOrganic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	38 / 0.342	43 / 0.387	43 / 0.774	63 / 1.962	187 / 3.465
1.1.70) ECP-XXAN F-35C, WING FRONT SPAR & FORWARD ROOT RIB- LIFE LIMITED - NonOrganic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	43 / 0.387	43 / 0.774	101 / 2.484	187 / 3.645
1.1.71) ECP-XXAO F-35C FS 402 UPPER OUTBOARD FRAMES LIMITED LIFE - NonOrganic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	43 / 0.387	43 / 0.774	129 / 2.736	215 / 3.897
1.1.72) ECP-XXXAP CV NLG STEERING GEAR COVER SHORT LIFE - NonOrganic	- / -	- / -	- / -	43 / 0.387	- / -	43 / 0.387	43 / 0.387	43 / 0.414	43 / 0.558	31 / 0.558	12 / 0.558	215 / 2.862
1.1.73) ECP-XXXI - F-35C 2WSH34717 MLG Trunnion Shear Web - NonOrganic	- / -	- / -	- / -	- / -	- / -	- / -	10 / 0.385	10 / 0.558	10 / 0.180	10 / 0.180	113 / 2.952	153 / 4.255
1.1.74) ECP-XXXJ - F-35C 2WSH54220 Wing Spar #5 Inboard - NonOrganic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	20 / 0.360	20 / 0.360	20 / 0.360	227 / 3.384	287 / 4.464
1.1.75) ECP-XXXN - F-35C 2WSH54301 Station 2/10 Aft Rib - NonOrganic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	20 / 0.360	20 / 0.360	20 / 0.360	227 / 3.384	287 / 4.464
1.1.76) ECP-XXXQ - F-35C 2CSH00984 BL24 Longeron & Splice - NonOrganic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	20 / 0.360	20 / 0.360	20 / 0.360	227 / 3.384	287 / 4.464
1.1.77) ECP-XXXR - F-35C 2WSH54252 Spar 7 Outboard - NonOrganic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	20 / 0.360	20 / 0.360	20 / 0.360	227 / 3.384	287 / 4.464

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy										Date: March 2023				
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0593 / F-35 CV Series					Modification Number / Title: 4 / F-35 CV CORRECTION OF DEFICIENCIES (OSIP 001-21)				
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:							
Models of Systems Affected: F-35 CV				Modification Type: Capability Improvement				Related RDT&E PEs: 0604800N, 0604840N						
Financial Plan	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total		
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)		
<i>Subtotal: Recurring</i>	- / 10.126	- / 2.516	- / 3.914	- / 4.488	- / -	- / 4.488	- / 7.666	- / 16.767	- / 18.297	- / 20.052	- / 56.629	- / 140.455		
<i>Subtotal: SLLP 2</i>	657 / 10.126	126 / 2.516	169 / 3.914	341 / 4.488	- / -	341 / 4.488	554 / 7.666	1,227 / 16.767	1,239 / 18.297	1,114 / 20.052	2,547 / 56.629	7,974 / 140.455		
Modification Item 2 of 3: SLLP 3														
A Kits														
Recurring														
2.1.1) ECP-XXXX - F-35C 2WSH54127 Aft Root Rib - NonOrganic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	20 / 0.360	20 / 0.360	20 / 0.360	179 / 2.952	239 / 4.032		
2.1.2) ECP-XXXB - F-35C 2WSH54121 Wing Fold Rib - NonOrganic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	20 / 0.360	20 / 0.360	20 / 0.360	179 / 2.952	239 / 4.032		
2.1.3) ECP-XXXC - F-35C 2WSH63431/2 FS 518 Fairing Support Frame - NonOrganic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	20 / 0.360	20 / 0.360	20 / 0.360	179 / 2.952	239 / 4.032		
2.1.4) ECP-XXXD - F-35C 2WSH91022/91170 OBW Spar 2B - NonOrganic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	20 / 0.360	20 / 0.360	199 / 2.952	239 / 3.672		
2.1.5) ECP-XXXF - F-35C 2WSH44508 FS 507 Upper Frame - NonOrganic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	20 / 0.360	20 / 0.360	223 / 3.168	263 / 3.888		
2.1.6) ECP-XXXG - F-35C 2WSH54105 BL 100 Rib - NonOrganic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	18 / 0.324	- / -	18 / 0.324		
2.1.7) ECP-XXXH - F-35C 2WSH54221 Wing Spar #5, Mid - NonOrganic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	263 / 3.168	263 / 3.168		
2.1.9) ECP-XXXK - F-35C RHS FS 402 LOWER OUTBOARD FRAME LIFE LIMITED (MOD) - NonOrganic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	287 / 3.384	287 / 3.384		
2.1.10) ECP-XXXL - F-35C 2WSH44032 BL 24 Shear Web, RH - NonOrganic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	287 / 3.384	287 / 3.384		
2.1.11) ECP-XXXM - F-35C FS402 LWR CENTER LIMITED LIFE - NonOrganic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	287 / 3.384	287 / 3.384		
2.1.13) ECP-XXXO - F-35C PYLON STATION 2 & 10 AFT RIB - NonOrganic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	287 / 3.384	287 / 3.384		
2.1.14) ECP-XXXP - F-35C 2FSH20023 FS 251 Bulkhead - NonOrganic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	287 / 3.384	287 / 3.384		
2.1.17) ECP-XXXS - F-35C, FRAME- FS191.5 RH, LIFE LIMITED- MOD - NonOrganic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	287 / 3.384	287 / 3.384		
<i>Subtotal: Recurring</i>	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.080	- / 1.800	- / 2.124	- / 38.448	- / 43.452		
<i>Subtotal: SLLP 3</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	60 / 1.080	100 / 1.800	118 / 2.124	2,944 / 38.448	3,222 / 43.452		
Modification Item 3 of 3: Vehicle														
B Kits														
Recurring														

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Exhibit P-3a, Individual Modification: PB 2024 Navy										Date: March 2023				
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0593 / F-35 CV Series					Modification Number / Title: 4 / F-35 CV CORRECTION OF DEFICIENCIES (OSIP 001-21)				
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:							
Models of Systems Affected: F-35 CV				Modification Type: Capability Improvement				Related RDT&E PEs: 0604800N, 0604840N						
Financial Plan	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total		
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)		
3.1.1) Vehicle Systems - Non-Organic - NonOrganic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	19 / 1.789	8 / 0.852	7 / 1.101	- / -	34 / 3.742		
3.1.2) ECP-1383 - VMC Upgrade - NonOrganic	33 / 0.294	8 / 0.098	1 / 0.011	5 / 0.067	- / -	5 / 0.067	4 / 0.057	14 / 0.144	14 / 0.144	12 / 0.150	17 / 0.140	108 / 1.105		
3.1.3) Mission Systems - Organic ⁽⁵⁾	28 / 5.600	12 / 0.533	19 / 1.142	15 / 0.650	- / -	15 / 0.650	15 / 0.650	12 / 0.670	13 / 0.654	12 / 0.851	- / -	126 / 10.750		
3.1.4) Correction of Deficiencies (B Kits) - Organic	46 / 2.474	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	46 / 2.474		
3.1.5) vehicle systems (organic) - Organic	- / -	120 / 1.309	19 / 1.444	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	139 / 2.753		
Subtotal: Recurring	- / 8.368	- / 1.940	- / 2.597	- / 0.717	- / -	- / 0.717	- / 0.707	- / 2.603	- / 1.650	- / 2.102	- / 0.140	- / 20.824		
Subtotal: Vehicle	107 / 8.368	140 / 1.940	39 / 2.597	20 / 0.717	- / -	20 / 0.717	19 / 0.707	45 / 2.603	35 / 1.650	31 / 2.102	17 / 0.140	453 / 20.824		
Subtotal: Procurement, All Modification Items	- / 18.494	- / 4.456	- / 6.511	- / 5.205	- / -	- / 5.205	- / 8.373	- / 20.450	- / 21.747	- / 24.278	- / 95.217	- / 204.731		
Support (All Modification Items)														
4.1) ILS (5) Program Support (SLLP) ⁽⁶⁾	- / 3.374	- / 6.376	- / 4.951	- / 5.007	- / -	- / 5.007	- / 5.692	- / 5.783	- / 8.191	- / 3.732	- / -	- / 43.106		
4.2) SLLP2 NRE ⁽⁷⁾	- / 10.349	- / 4.250	- / 0.524	- / 0.450	- / -	- / 0.450	- / 0.450	- / 0.400	- / 0.250	- / 0.250	- / -	- / 16.923		
4.3) SLLP3 NRE	- / -	- / -	- / 2.030	- / 2.300	- / -	- / 2.300	- / 1.750	- / 1.400	- / 1.550	- / 1.550	- / -	- / 10.580		
4.4) Mission Systems/Vehicle Systems NRE	- / 0.625	- / 0.539	- / 0.490	- / 0.505	- / -	- / 0.505	- / 0.650	- / 0.520	- / 0.526	- / -	- / -	- / 3.855		
4.5) Other Support (Depot Site Support - Structures) ⁽⁸⁾	- / 0.395	- / 0.345	- / 0.381	- / 0.392	- / -	- / 0.392	- / 0.404	- / 0.404	- / 0.410	- / 1.000	- / -	- / 3.731		
4.6) Other Support (Depot Site support - COD)	- / 0.158	- / 0.137	- / 0.121	- / 0.125	- / -	- / 0.125	- / 0.528	- / 0.132	- / 0.136	- / -	- / -	- / 1.337		
4.7) Other Support (LSP Site Support) ⁽⁹⁾	- / -	- / 2.393	- / 4.341	- / 3.615	- / -	- / 3.615	- / 4.569	- / 4.621	- / 4.694	- / 4.547	- / -	- / 28.780		
4.8) Support Equipment (SLLP 2)	- / 2.685	- / 2.137	- / 2.048	- / 1.638	- / -	- / 1.638	- / 4.955	- / 3.075	- / 1.234	- / -	- / -	- / 17.772		
Subtotal: Support	- / 17.586	- / 16.177	- / 14.886	- / 14.032	- / -	- / 14.032	- / 18.998	- / 16.335	- / 16.991	- / 11.079	- / 0.000	- / 126.084		
Installation														
Modification Item 1 of 3: SLLP 2	- / 13.800	- / 17.065	- / 24.226	- / 27.696	- / 0.000	- / 27.696	- / 53.966	- / 50.899	- / 59.714	- / 84.040	- / 166.154	- / 497.560		
Modification Item 2 of 3: SLLP 3	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 7.024	- / 66.396	- / 73.420		
Modification Item 3 of 3: Vehicle	- / 0.000	- / 0.000	- / 1.650	- / 1.400	- / 0.000	- / 1.400	- / 0.075	- / 1.023	- / 1.955	- / 0.000	- / 10.086	- / 16.189		
Subtotal: Installation	- / 13.800	- / 17.065	- / 25.876	- / 29.096	- / -	- / 29.096	- / 54.041	- / 51.922	- / 61.669	- / 91.064	- / 242.636	- / 587.169		
Total														
Total Cost (Procurement + Support + Installation)	49.880	37.698	47.273	48.333	0.000	48.333	81.412	88.707	100.407	126.421	337.853	917.984		

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0593 / F-35 CV Series	Modification Number / Title: 4 / F-35 CV CORRECTION OF DEFICIENCIES (OSIP 001-21)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Modification Item 1 of 3: SLLP 2

Manufacturer Information

Manufacturer Name: Lockheed Martin ⁽¹⁰⁾	Manufacturer Location: Fort Worth, TX
Administrative Leadtime (in Months): 5	Production Leadtime (in Months): 20

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates	Feb 2022	Feb 2023	Feb 2024	Feb 2025	Feb 2026	Feb 2027	Feb 2028
Delivery Dates	Nov 2024	Nov 2025	Nov 2026	Nov 2027	Nov 2028	Nov 2029	Nov 2029

Installation Information

Method of Implementation: Contract, Depot Activities:: Installation Name: SLLP 2 Phase 1

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	79 / 13.800	277 / 17.065	202 / 24.226	50 / 4.277	0 / 0.000	50 / 4.277	35 / 2.546	14 / 0.928	- / -	- / -	0 / 0.000	657 / 62.842
FY 2022	- / -	- / -	- / -	126 / 23.419	0 / 0.000	126 / 23.419	- / -	- / -	- / -	- / -	0 / 0.000	126 / 23.419
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	169 / 51.420	- / -	- / -	- / -	0 / 0.000	169 / 51.420
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	341 / 49.971	- / -	- / -	0 / 0.000	341 / 49.971
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	554 / 59.714	- / -	0 / 0.000	554 / 59.714
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1,150 / 67.941	0 / 0.000	1,150 / 67.941
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.057	1,151 / 59.821	1,151 / 59.878
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	81 / 16.042	1,033 / 18.974	1,114 / 35.016
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2,547 / 87.359	2,547 / 87.359
Total	79 / 13.800	277 / 17.065	202 / 24.226	176 / 27.696	0 / 0.000	176 / 27.696	204 / 53.966	355 / 50.899	554 / 59.714	1,231 / 84.040	4,731 / 166.154	7,809 / 497.560

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	79	-	91	95	91	5	66	69	62	2	62	60	52	-	77	70	57	16	117	114	108	16	174	184	180	102	384	378	367	4,731	7,809
Out	43	5	18	81	77	107	27	68	59	28	21	59	51	40	20	55	47	39	46	77	69	49	39	68	64	93	375	369	367	5,348	7,809

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0593 / F-35 CV Series	Modification Number / Title: 4 / F-35 CV CORRECTION OF DEFICIENCIES (OSIP 001-21)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Modification Item 2 of 3: SLLP 3

Manufacturer Information

Manufacturer Name: Lockheed Martin ⁽¹¹⁾	Manufacturer Location: Fort Worth, TX
Administrative Leadtime (in Months): 5	Production Leadtime (in Months): 20

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates						Feb 2027	
Delivery Dates						Nov 2029	

Installation Information

Method of Implementation: Contract, Depot Activities:: Installation Name: SLLP3

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	60 / 7.024	0 / 0.000
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	80 / 5.444	80 / 5.444
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	80 / 15.360	80 / 15.360
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	736 / 45.592	736 / 45.592
Total	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	60 / 7.024	896 / 66.396

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	30	30	896	956	
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	30	30	896	956

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0593 / F-35 CV Series	Modification Number / Title: 4 / F-35 CV CORRECTION OF DEFICIENCIES (OSIP 001-21)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Modification Item 3 of 3: Vehicle

Manufacturer Information

Manufacturer Name: TBD	Manufacturer Location: TBD
Administrative Leadtime (in Months): 0	Production Leadtime (in Months): 0

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates							
Delivery Dates							

Manufacturer Name: Lockheed Martin ⁽¹²⁾	Manufacturer Location: Fort Worth, TX
Administrative Leadtime (in Months): 5	Production Leadtime (in Months): 20

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates	Feb 2022	Feb 2023	Feb 2024	Feb 2025	Feb 2026	Feb 2027	Feb 2028
Delivery Dates	Nov 2024	Nov 2025	Nov 2026	Nov 2027	Nov 2028	Nov 2029	Nov 2029

Installation Information

Method of Implementation: Contract, Depot Activities:: Installation Name: Vehicle Systems - Non-Organic

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	19 / 2.922	19 / 2.922
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	8 / 0.852	8 / 0.852
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	7 / 3.912	7 / 3.912
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	34 / 7.686	34 / 7.686

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0593 / F-35 CV Series	Modification Number / Title: 4 / F-35 CV CORRECTION OF DEFICIENCIES (OSIP 001-21)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Modification Item 3 of 3: Vehicle

Installation Information

Method of Implementation: Contract, Depot Activities:: Installation Name: Vehicle Systems - Non-Organic

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	34	34	
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	34	34	

Method of Implementation: Contract, Depot Activities:: Installation Name: SLLP 2 Phase 1

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	33 / 1.650	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	33 / 1.650
FY 2022	- / -	- / -	- / -	8 / 1.400	0 / 0.000	8 / 1.400	- / -	- / -	- / -	- / -	0 / 0.000	8 / 1.400
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.075	- / -	- / -	- / -	0 / 0.000	1 / 0.075
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	5 / 1.023	- / -	- / -	0 / 0.000	5 / 1.023
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4 / 1.955	- / -	0 / 0.000	4 / 1.955
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	14 / 0.700	14 / 0.700
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	14 / 0.700	14 / 0.700
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	12 / 0.150	12 / 0.150
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	17 / 0.850	17 / 0.850
Total	- / -	- / -	33 / 1.650	8 / 1.400	0 / 0.000	8 / 1.400	1 / 0.075	5 / 1.023	4 / 1.955	- / -	57 / 2.400	108 / 8.503

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	11	11	11	-	2	3	3	-	1	-	-	-	1	2	2	-	1	1	2	-	-	-	-	57	108
Out	-	-	-	-	-	-	-	11	11	11	-	2	3	3	-	1	-	-	-	1	2	2	-	1	1	-	-	-	-	59	108

Method of Implementation (Organic): Mission Systems **Installation Quantity:** 126

Method of Implementation (Organic): Correction of Deficiencies (B Kits) **Installation Quantity:** 46

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0593 / F-35 CV Series	Modification Number / Title: 4 / F-35 CV CORRECTION OF DEFICIENCIES (OSIP 001-21)
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:
Modification Item 3 of 3: Vehicle		
Installation Information		
Method of Implementation (Organic): vehicle systems (organic)		Installation Quantity: 139
<p>Footnotes:</p> <p>(5) Kit quantities are a roll-up based upon induction of aircraft in each year. Each kit contains a range of five to fifteen ECP's depending on the aircraft LRIP configuration.</p> <p>(6) Integrated Logistics Support consists of recurring modification management support and depot planning for the USN's portion of the enterprise cost share.</p> <p>(7) Non-recurring engineering consists of LRIP specific engineering to ensure the modification kit works on each aircraft as well as the development and distribution of tooling to install the retrofit kit. SLLP2 NRE begins to taper off in FY2023 while SLLP3 NRE begins to increase.</p> <p>(8) Depot Site Support is the USNs cost share allocation for contractor support at the Organic depots. This other support is required to facilitate the support staff necessary to incorporate these modifications; this cost is based on the percentage of USN inductions compared to the rest of the inductions at the Organic depot.</p> <p>(9) Laser Shock Peening (LSP) for the F-35C models requires contractor support to operate the equipment at the depots; funding required to obtain the manpower since it can't be operated organically and equipment is owned by the contractor. FY2024 will be the first full year of LSP inductions for F-35C. Costs will vary each year for F-35C since both F-35B and F-35C are using the LSP capacity.</p> <p>(10) The program will continue to refine the installation schedule in order to provide transparency and accuracy in the budget exhibit. Cost to complete and quantity to complete vary from year to year depending on number ECPs that have been approved.</p> <p>(11) The program will continue to refine the installation schedule in order to provide transparency and accuracy in the budget exhibit. Cost to complete and quantity to complete vary from year to year depending on number ECPs that have been approved.</p> <p>(12) The program will continue to refine the installation schedule in order to provide transparency and accuracy in the budget exhibit. Cost to complete and quantity to complete vary from year to year depending on number ECPs that have been approved.</p>		

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0593 / F-35 CV Series	Modification Number / Title: 5 / F-35 CV RELIABILITY AND MAINTAINABILITY (OSIP 002-21)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	0.000	0.000	2.650	1.687	0.000	1.687	1.731	2.830	3.180	3.136	0.600	15.814
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	0.000	0.000	2.650	1.687	0.000	1.687	1.731	2.830	3.180	3.136	0.600	15.814
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	0.000	0.000	2.650	1.687	0.000	1.687	1.731	2.830	3.180	3.136	0.600	15.814

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

This Operational Safety Improvement Program is established for the correction of readiness degraders impacting F-35C cost per flight hour, Reliability Maintainability and Availability (RM&A), obsolescence, and reduction of life cycle costs. These modifications will be accomplished by unit level installs/field mod teams and implemented to coincide with resources and aircraft availability.

In order to meet the goal of increasing readiness, the airframe and integrated systems must be modified as critical RM&A issues are identified. Funds will be used to manage, prepare, process, and incorporate Engineering Change Proposals (ECP's). Individual ECPs will be listed once identified. The reliability and readiness initiatives included in the proposed OSIP are projected to have a significant positive impact to the F-35C Aircraft platform.

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy										Date: March 2023			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0593 / F-35 CV Series					Modification Number / Title: 5 / F-35 CV RELIABILITY AND MAINTAINABILITY (OSIP 002-21)			
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: F-35 CV				Modification Type: Capability Improvement				Related RDT&E PEs: 0604800N, 0604840N					
Financial Plan	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
<i>Modification Item 1 of 1: F-35 CV RELIABILITY AND MAINTAINABILITY (OSIP 002-21)</i>													
A Kits													
Recurring													
1.1.1) Reliability and Maintainability (A Kits) - Organic	- / -	- / -	20 / 1.000	13 / 0.675	- / -	13 / 0.675	22 / 1.088	22 / 1.580	11 / 1.580	12 / 1.684	- / -	100 / 7.607	
<i>Subtotal: Recurring</i>	<i>- / 0.000</i>	<i>- / -</i>	<i>- / 1.000</i>	<i>- / 0.675</i>	<i>- / -</i>	<i>- / 0.675</i>	<i>- / 1.088</i>	<i>- / 1.580</i>	<i>- / 1.580</i>	<i>- / 1.684</i>	<i>- / 0.000</i>	<i>- / 7.607</i>	
B Kits													
Recurring													
2.1.1) Reliability and Maintainability (B KITS) - Organic (13)	- / -	- / -	22 / 1.650	20 / 1.012	- / -	20 / 1.012	13 / 0.643	22 / 1.250	22 / 1.200	11 / 1.052	11 / 0.600	121 / 7.407	
<i>Subtotal: Recurring</i>	<i>- / 0.000</i>	<i>- / -</i>	<i>- / 1.650</i>	<i>- / 1.012</i>	<i>- / -</i>	<i>- / 1.012</i>	<i>- / 0.643</i>	<i>- / 1.250</i>	<i>- / 1.200</i>	<i>- / 1.052</i>	<i>- / 0.600</i>	<i>- / 7.407</i>	
<i>Subtotal: F-35 CV RELIABILITY AND MAINTAINABILITY (OSIP 002-21)</i>	<i>- / -</i>	<i>- / -</i>	<i>42 / 2.650</i>	<i>33 / 1.687</i>	<i>- / -</i>	<i>33 / 1.687</i>	<i>35 / 1.731</i>	<i>44 / 2.830</i>	<i>33 / 2.780</i>	<i>23 / 2.736</i>	<i>11 / 0.600</i>	<i>221 / 15.014</i>	
<i>Subtotal: Procurement, All Modification Items</i>	<i>- / 0.000</i>	<i>- / -</i>	<i>- / 2.650</i>	<i>- / 1.687</i>	<i>- / -</i>	<i>- / 1.687</i>	<i>- / 1.731</i>	<i>- / 2.830</i>	<i>- / 2.780</i>	<i>- / 2.736</i>	<i>- / 0.600</i>	<i>- / 15.014</i>	
Support (All Modification Items)													
3.2) Other Support (14)	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.400	- / 0.400	- / -	- / 0.800	
<i>Subtotal: Support</i>	<i>- / 0.000</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / 0.400</i>	<i>- / 0.400</i>	<i>- / 0.000</i>	<i>- / 0.800</i>	
Installation													
<i>Subtotal: Installation</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	
Total													
Total Cost (Procurement + Support + Installation)	0.000	0.000	2.650	1.687	0.000	1.687	1.731	2.830	3.180	3.136	0.600	15.814	

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0593 / F-35 CV Series	Modification Number / Title: 5 / F-35 CV RELIABILITY AND MAINTAINABILITY (OSIP 002-21)
ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:	
Modification Item 1 of 1: F-35 CV RELIABILITY AND MAINTAINABILITY (OSIP 002-21)		

Footnotes:

⁽¹³⁾ Cost varies from year to year based on complexity of modifications and aircraft availability to perform modifications as required. High quantities due to Reliability and Maintainability (R&M) projects are projected to be numerous small ECP's that can occur quickly and be installed at the organic/unit level.

⁽¹⁴⁾ As the modifications of aircrafts increase, Other Support is required to manage aircraft modification thus increasing the requirement for Other Support funding.

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0593 / F-35 CV Series	Modification Number / Title: 6 / Inactive/Completed OSIPS

ID Code (A=Service Ready, B=Not Service Ready) : _____ **MDAP/MAIS Code:** _____

Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	187.584	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	187.584
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	187.584	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	187.584
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	187.584	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	187.584

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

This OSIP is a place holder for the Prior Year funds of completed OSIPs within this BLI.

Completed OSIPs:

F-35 CV BLOCK 3i/3F UPGRADE (OSIP 016-14)

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Exhibit P-3a, Individual Modification: PB 2024 Navy **Date:** March 2023

Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1 **P-1 Line Item Number / Title:** 0593 / F-35 CV Series **Modification Number / Title:** 6 / Inactive/Completed OSIPS

ID Code (A=Service Ready, B=Not Service Ready) : **MDAP/MAIS Code:**

Models of Systems Affected: F-35 CV **Modification Type:** Archived Mods **Related RDT&E PEs:**

Financial Plan	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Procurement												
<i>Modification Item 1 of 1:</i> Inactive/Completed OSIPS												
B Kits												
Recurring												
1.1.1) Completed OSIP 016-14 - Organic	- / 62.366	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 62.366
1.1.2) Completed OSIP 024-14 - Organic	- / 125.218	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 125.218
<i>Subtotal: Recurring</i>	- / 187.584	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 187.584
<i>Subtotal: Inactive/Completed OSIPS</i>	- / 187.584	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 187.584
<i>Subtotal: Procurement, All Modification Items</i>	- / 187.584	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 187.584
Installation												
<i>Subtotal: Installation</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total												
Total Cost (Procurement + Support + Installation)	187.584	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	187.584

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0593 / F-35 CV Series	Modification Number / Title: 6 / Inactive/Completed OSIPS
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:
Modification Item 1 of 1: Inactive/Completed OSIPS		

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Exhibit P-40, Budget Line Item Justification: PB 2024 Navy **Date:** March 2023

Appropriation / Budget Activity / Budget Sub Activity: 1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft	P-1 Line Item Number / Title: 0595 / QRC
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	0.000	93.563	47.864	28.206	0.000	28.206	22.184	20.316	20.330	20.886	-	253.349
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	0.000	93.563	47.864	28.206	0.000	28.206	22.184	20.316	20.330	20.886	-	253.349
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	0.000	93.563	47.864	28.206	0.000	28.206	22.184	20.316	20.330	20.886	-	253.349

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Details of this P-1 item are classified.

Justification:

Justification of this request is provided separately.

OOC:

FY 2022 includes \$22.047M in OOC execution.

FY 2024 includes \$5.010M for the OOC budget request.

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Exhibit P-40, Budget Line Item Justification: PB 2024 Navy **Date:** March 2023

Appropriation / Budget Activity / Budget Sub Activity: 1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft	P-1 Line Item Number / Title: 0596 / MQ-4 Series
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ID Code (A=Service Ready, B=Not Service Ready): B	Program Elements for Code B Items: 0305220N, 0305421N	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: 373

Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
<i>Procurement Quantity (Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
<i>Gross/Weapon System Cost (\$ in Millions)</i>	98.117	7.046	91.977	93.951	0.000	93.951	122.518	150.230	149.947	162.758	245.194	1,121.738
<i>Less PY Advance Procurement (\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
<i>Net Procurement (P-1) (\$ in Millions)</i>	98.117	7.046	91.977	93.951	0.000	93.951	122.518	150.230	149.947	162.758	245.194	1,121.738
<i>Plus CY Advance Procurement (\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	98.117	7.046	91.977	93.951	0.000	93.951	122.518	150.230	149.947	162.758	245.194	1,121.738

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

<i>Initial Spares (\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
<i>Flyaway Unit Cost (\$ in Dollars)</i>	-	-	-	-	-	-	-	-	-	-	-	-
<i>Gross/Weapon System Unit Cost (\$ in Dollars)</i>	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The FY 2024 budget includes four (4) OSIPS to incorporate Engineering Change Proposals (ECPs) to correct and modernize the aircraft platform; improve and refresh ground segment equipment; improve mission system payloads in order to maintain maritime dominance; and fund modifications to the MQ-4C Triton Unmanned Air System (UAS) to deliver Increment 1 and follow on configurations. MQ-4C Triton aircraft and ground stations in the Increment 1 configuration are integral to the Navy's Maritime Intelligence, Surveillance, Reconnaissance and Targeting (MISR&T) transition plan. Increment 1 is identified as all modifications associated with IFC-3 and the transition to IFC-4. Each IFC configuration incorporates various capabilities as outlined within this budget exhibit as well as the program's development budget associated with the following PE's: 0305220N and 0305421N.

The MQ-4C Triton is a high altitude-long endurance UAS designed to provide Fleet and combatant commanders with persistent maritime Intelligence, Surveillance and Reconnaissance (ISR) of nearly all the world's high-density sea-lanes, littorals, and areas of national interest. The MQ-4C air vehicle, mission control system, specialized sensors, and communications suite play a significant role in achieving the Navy's strategic vision for the 21st century. The Triton system provides persistent ISR and unparalleled situational awareness of the maritime battle space to the supported combatant commander and fleet commander. The system also serves as a Fleet response plan enabler with a persistent, global force offering to provide critical trip wire information for intelligence preparation of the environment. Triton provides the Warfighter with unprecedented levels of battlespace awareness to synchronize actions necessary to maintain maritime Full Spectrum Superiority. Teamed with its manned-capability counterpart, the P-8A, Triton is a key component of the Navy's maritime domain awareness family of systems. MQ-4C Triton leverages Maritime Patrol and Reconnaissance Force manpower, training and maintenance efficiencies.

Following successful EOC deployment in December 2020, the MQ-4C Triton UAS is developing incremental capabilities within the ongoing acquisition program to meet program requirements in support of the 2011 National Defense Authorization Act (NDAA) enabling EP-3 sundown and the Maritime Intelligence, Surveillance, Reconnaissance and Targeting (MISR&T) transition plan.

The full MQ-4C Triton sensor suite will provide near worldwide coverage through a network of orbits inside and outside continental United States, with sufficient air vehicles exceeding 20 hours of persistence. Onboard sensors will provide detection, classification, tracking and identification of maritime targets and include maritime radar, electro-optical/infra-red and SIGINT systems. Additionally, the MQ-4C communications relay capability will link dispersed forces in the theater of operations and allow Triton to serve as a node in the Navy's networked strategy. Tactical-level data analysis will occur in real-time at shore-based mission control sites connected to the air vehicle via satellite communications. Further intelligence exploitation can be conducted at Fleet shore-based sites or aboard aircraft carriers and other ships.

The aircraft inventory objective for the MQ-4C Triton in FY 2024 is projected to be 3 System Development and Demonstration, 1 System Demonstration Test Article, and 14 LRIP aircraft.

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Exhibit P-40, Budget Line Item Justification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft		P-1 Line Item Number / Title: 0596 / MQ-4 Series
ID Code (A=Service Ready, B=Not Service Ready): B	Program Elements for Code B Items: 0305220N, 0305421N	Other Related Program Elements: N/A
Line Item MDAP/MAIS Code: 373		
<p>OSIP 009-18 MQ-4C Triton Upgrades - Increment 1: This OSIP funds modifications to the baseline MQ-4C Triton Unmanned Air System (UAS) to deliver the Increment 1 configuration. MQ-4C Triton aircraft and ground stations in the Increment 1 configuration are integral to the Navy's ISR transition plan.</p> <p>OSIP 003-23 MQ-4C Triton Aircraft Systems Correction of Deficiencies and Modernization: This OSIP funds Correction of Production Deficiencies and Modernization to correct MQ-4C Production Air Vehicle deficiencies resulting from readiness, obsolescence, safety and Diminishing Manufacturing Sources and Material Shortages (DMSMS) issues and modifications required to outpace technological threats.</p> <p>004-23 MQ-4C Triton Ground Segment Technology Improvements: This OSIP funds Correction of Production Deficiencies and Modernization to correct MQ-4C Ground Segment (Main Operating Base (MOB), Forward Operating Base (FOB) and standalone Trainers) Production deficiencies resulting from readiness, obsolescence, safety and Diminishing Manufacturing Sources and Material Shortages (DMSMS) issues and modifications required to outpace technological threats.</p> <p>OSIP 005-23 MQ-4C Triton Payloads Mission Systems Improvements and Technology Insertion: This OSIP funds modifications to the MQ-4C Payloads Mission Systems and communication systems to include, but not limited to, SIGINT systems, radar systems and EO/IR systems in order to outpace technological threats and maintain Triton Interoperability, proactively upgrading obsolescence issues and delivering performance enhancements, as well as upgrading lab and early production payload Weapon Replaceable Assemblies (WRAs) to keep pace with technology insertions.</p>		

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Exhibit P-40, Budget Line Item Justification: PB 2024 Navy **Date:** March 2023

Appropriation / Budget Activity / Budget Sub Activity:
1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft

P-1 Line Item Number / Title:
0596 / MQ-4 Series

ID Code (A=Service Ready, B=Not Service Ready): B **Program Elements for Code B Items:** 0305220N, 0305421N **Other Related Program Elements:** N/A

Line Item MDAP/MAIS Code: 373

Exhibits Schedule					Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	1 / MQ-4C Triton Upgrades (OSIP 009-18) (Added capability)				- / 98.117	- / 7.046	- / 91.977	- / 75.140	- / 0.000	- / 75.140
P-3a	2 / MQ-4C Triton Platform Systems Correction of Deficiencies and Modernization (OSIP 003-23) (Added capability)				- / 0.000	- / 0.000	- / 0.000	- / 14.754	- / 0.000	- / 14.754
P-3a	3 / MQ-4C Triton Ground Segment Technology Improvements (OSIP 004-23) (Added capability)				- / 0.000	- / 0.000	- / 0.000	- / 4.057	- / 0.000	- / 4.057
P-3a	4 / MQ-4C Triton Payloads Mission Systems Improvements and Technology Insertion (OSIP 005-23) (Added capability)				- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000
P-40	Total Gross/Weapon System Cost				- / 98.117	- / 7.046	- / 91.977	- / 93.951	- / 0.000	- / 93.951

Exhibits Schedule					FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	1 / MQ-4C Triton Upgrades (OSIP 009-18) (Added capability)				- / 102.712	- / 77.004	- / 46.994	- / 0.000	- / 0.000	- / 498.990
P-3a	2 / MQ-4C Triton Platform Systems Correction of Deficiencies and Modernization (OSIP 003-23) (Added capability)				- / 18.751	- / 63.887	- / 70.400	- / 83.459	- / 125.056	- / 376.307
P-3a	3 / MQ-4C Triton Ground Segment Technology Improvements (OSIP 004-23) (Added capability)				- / 1.055	- / 1.258	- / 1.289	- / 34.338	- / 38.833	- / 80.830
P-3a	4 / MQ-4C Triton Payloads Mission Systems Improvements and Technology Insertion (OSIP 005-23) (Added capability)				- / 0.000	- / 8.081	- / 31.264	- / 44.961	- / 81.305	- / 165.611
P-40	Total Gross/Weapon System Cost				- / 122.518	- / 150.230	- / 149.947	- / 162.758	- / 245.194	- / 1,121.738

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

Justification:
The FY 2024 request resources for hardware costs for kits for two (2) aircraft retrofits and one (1) Main Operating Base (MOB) ground station, as well as installation costs for one (1) Forward Operating Base (FOB) ground station. Additionally, FY 2024 continues OSIPs to address: (1) Aircraft Platform Systems Correction of Production Deficiencies and Modernization, (2) Ground Segment Improvements, and (3) Payloads Mission System Improvements and Technology Insertion.

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0596 / MQ-4 Series	Modification Number / Title: 1 / MQ-4C Triton Upgrades (OSIP 009-18)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	98.117	7.046	91.977	75.140	0.000	75.140	102.712	77.004	46.994	0.000	0.000	498.990
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	98.117	7.046	91.977	75.140	0.000	75.140	102.712	77.004	46.994	0.000	0.000	498.990
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	98.117	7.046	91.977	75.140	0.000	75.140	102.712	77.004	46.994	0.000	0.000	498.990

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

OSIP 009-18 provides funding to upgrade Baseline aircraft and ground stations (Main Operating Base (MOB) and Forward Operating Base (FOB)) to Increment 1 configuration. The ground stations also include the stand-alone MOB used for training. The technical components of the Increment 1 retrofits for the unmanned aircraft include, but are not limited to: addition of Signals Intelligence (SIGINT) antennas and systems, new High Gain Common Data Link (CDL) antenna and associated avionics, addition of a Keyed Broad Area Maritime Surveillance Airborne Recorder (K-BAR), new Airborne Mission Processor, new airborne network hardware, addition of high assurance internet protocol encryptors (HAIPE), new Voice Communications, new Cross Domain Solution (CDS), and air vehicle aircraft modifications to mitigate Electromagnetic Interference (EMI).

The technical components of the Increment 1 retrofits for the MOB/FOB include, but are not limited to: addition of a K-BAR docking station, addition of Mission Execution equipment (replaces existing payload hardware), new communication and network equipment, addition of CDS, and other related systems.

Development Status/Major Development Milestones: Increment 1 Triton Initial Operational Capability (IOC) in FY 2023.

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Exhibit P-3a, Individual Modification: PB 2024 Navy										Date: March 2023			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0596 / MQ-4 Series					Modification Number / Title: 1 / MQ-4C Triton Upgrades (OSIP 009-18)			
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: MQ-4C Triton			Modification Type: Added capability				Related RDT&E PEs: 0305421N						
Financial Plan <small>(* Indicates the modification is being installed organically and no installation funds are required.)</small>	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
1.1.1) Increment 1 Aircraft Upgrade A Kit - NonOrganic <i>Installation 1 of 3</i>	2 / 11.294	- / -	- / -	2 / 22.596	- / -	2 / 22.596	1 / 13.788	1 / 13.998	- / -	- / -	- / -	6 / 61.676	
1.1.2) Increment 1 Aircraft Upgrade Delta A-Kit - NonOrganic ⁽¹⁾ <i>Installation 2 of 3</i>	- / -	- / -	2 / 21.914	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 21.914	
2.1.1) Increment 1 Aircraft Upgrade B Kit - Organic ^(*)	2 / 15.503	- / -	- / -	2 / 31.204	- / -	2 / 31.204	1 / 17.914	1 / 18.232	- / -	- / -	- / -	6 / 82.853	
2.1.2) Increment 1 Aircraft Upgrade Delta B Kit - Organic ^{(*) (2)}	- / -	- / -	2 / 3.472	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 3.472	
2.1.3) Increment 1 Main and Forward Operating Base upgrade - NonOrganic ⁽³⁾ <i>Installation 3 of 3</i>	2 / 17.947	1 / 6.534	1 / 6.657	1 / 12.809	- / -	1 / 12.809	- / -	- / -	- / -	- / -	- / -	5 / 43.947	
2.2.1) N/R for Increment 1 Upgrade - Organic ^(*)	- / 0.404	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.404	
Subtotal: Procurement	- / 45.148	- / 6.534	- / 32.043	- / 66.609	- / -	- / 66.609	- / 31.702	- / 32.230	- / -	- / -	- / 0.000	- / 214.266	
Support													
3.1) Training Equipment	- / 19.041	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 19.041	
3.2) Other Support ⁽⁴⁾	- / 2.392	- / 0.512	- / 0.578	- / 0.588	- / -	- / 0.588	- / 0.601	- / 0.613	- / 0.625	- / -	- / -	- / 15.909	
Subtotal: Support	- / 21.433	- / 0.512	- / 0.578	- / 0.588	- / -	- / 0.588	- / 0.601	- / 0.613	- / 0.625	- / -	- / 0.000	- / 24.950	
Installation													
Installation 1 of 3: Increment 1 Aircraft Upgrade A Kit	- / 25.575	- / -	- / -	- / -	- / -	- / -	- / 62.082	- / 44.161	- / 46.369	- / -	- / 0.000	- / 178.187	
Installation 2 of 3: Increment 1 Aircraft Upgrade Delta A-Kit	- / -	- / -	- / 56.071	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 56.071	
Installation 3 of 3: Increment 1 Main and Forward Operating Base upgrade	- / 5.961	- / -	- / 3.285	- / 7.943	- / 0.000	- / 7.943	- / 8.327	- / -	- / -	- / -	- / 0.000	- / 25.516	
Subtotal: Installation	- / 31.536	- / -	- / 59.356	- / 7.943	- / -	- / 7.943	- / 70.409	- / 44.161	- / 46.369	- / -	- / 0.000	- / 259.774	
Total													
Total Cost (Procurement + Support + Installation)	98.117	7.046	91.977	75.140	0.000	75.140	102.712	77.004	46.994	0.000	0.000	498.990	

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0596 / MQ-4 Series	Modification Number / Title: 1 / MQ-4C Triton Upgrades (OSIP 009-18)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Installation 1 of 3: Increment 1 Aircraft Upgrade A Kit

Manufacturer Information

Manufacturer Name: Multiple Manufacturers-Aircraft Upgrade ⁽⁵⁾	Manufacturer Location: Various
Administrative Leadtime (in Months): 3	Production Leadtime (in Months): 16

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates			Dec 2023	Dec 2024	Dec 2025		
Delivery Dates			Mar 2025	Mar 2026	Mar 2027		

Installation Information

Method of Implementation: Contractor:: Installation Name: Increment 1 Aircraft Upgrade A Kit

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	2 / 25.575	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	2 / 25.575
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	2 / 62.082	- / -	- / -	- / -	0 / 0.000	2 / 62.082
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 44.161	- / -	- / -	0 / 0.000	1 / 44.161
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 46.369	- / -	0 / 0.000	1 / 46.369
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	2 / 25.575	- / -	- / -	- / -	- / -	- / -	2 / 62.082	1 / 44.161	1 / 46.369	- / -	0 / 0.000	6 / 178.187

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot	
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4			
In	2	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	1	-	-	-	1	-	-	-	-	-	-	-	-	-
Out	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	2	-	-	-	-	1	-	-	

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0596 / MQ-4 Series	Modification Number / Title: 1 / MQ-4C Triton Upgrades (OSIP 009-18)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Installation 2 of 3: Increment 1 Aircraft Upgrade Delta A-Kit

Manufacturer Information

Manufacturer Name: Multiple Manufacturers-Aircraft Upgrade ⁽⁶⁾	Manufacturer Location: Various
Administrative Leadtime (in Months): 4	Production Leadtime (in Months): 6

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates		Jan 2023	Jan 2024				
Delivery Dates		Jun 2023	Jun 2024				

Installation Information

Method of Implementation: Contractor:: Installation Name: Increment 1 Aircraft Upgrade Delta A-Kit

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	2 / 56.071	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	2 / 56.071
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	2 / 56.071	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	2 / 56.071

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	-	-	-	-	-	-	-	-	-	-	2	

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0596 / MQ-4 Series	Modification Number / Title: 1 / MQ-4C Triton Upgrades (OSIP 009-18)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Installation 3 of 3: Increment 1 Main and Forward Operating Base upgrade

Manufacturer Information

Manufacturer Name: Multiple Manufacturers - Operating Base ⁽⁷⁾	Manufacturer Location: Various
Administrative Leadtime (in Months): 10	Production Leadtime (in Months): 9

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates	Sep 2022	Dec 2022	Dec 2023				
Delivery Dates	Feb 2023	Sep 2023	Sep 2024				

Installation Information

Method of Implementation: Contractor:: Installation Name: Increment 1 Main and Forward Operating Base upgrade

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	1 / 5.961	- / -	1 / 1.504	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	2 / 7.465
FY 2022	- / -	- / -	1 / 1.781	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	1 / 1.781
FY 2023	- / -	- / -	- / -	1 / 7.943	0 / 0.000	1 / 7.943	- / -	- / -	- / -	- / -	0 / 0.000	1 / 7.943
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	1 / 8.327	- / -	- / -	- / -	0 / 0.000	1 / 8.327
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	1 / 5.961	- / -	2 / 3.285	1 / 7.943	0 / 0.000	1 / 7.943	1 / 8.327	- / -	- / -	- / -	0 / 0.000	5 / 25.516

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot	
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4			
In	1	-	-	-	-	1	1	-	-	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5
Out	1	-	-	-	-	-	-	-	-	1	1	-	-	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	5

Footnotes:
⁽¹⁾ The delta A kits represent a portion of the Multi-Intelligence (Multi-INT) retrofit kit, specifically comprised of 26 Engineering Change Proposals (ECPs) that are necessary for the full IFC-4.0 Multi-INT capability to work as intended, as well as completing installation efforts that were placed on hold in November 2018 and February 2021 once the program realized that additional ECPs would be required.

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0596 / MQ-4 Series	Modification Number / Title: 1 / MQ-4C Triton Upgrades (OSIP 009-18)
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:
<p>(2) The delta B kits represent a portion of the Multi-Intelligence (Multi-INT) retrofit kit, specifically comprised of 26 Engineering Change Proposals (ECPs) that are necessary for the full IFC-4.0 Multi-INT capability to work as intended, as well as completing installation efforts that were placed on hold in November 2018 and February 2021 once the program realized that additional ECPs would be required.</p> <p>(3) FY 2024 includes funding for retrofit installation of one (1) Forward Operating Base (FOB) procured in FY 2023, and procurement of one (1) Main Operating Base (MOB) upgrade kit. Procurement of MOB upgrade kit was originally planned for FY 2023 and was moved to FY 2024. The MOB is responsible for mission planning, mission command and control, collecting/processing/storing/disseminating mission data, and providing broad situational awareness and real-time mission management to the COCOM. The FOB's sole purpose is to launch and recover the air vehicle from the forward site.</p> <p>(4) Other Support funds government support for aircraft modification, installation, calibration and testing required for acceptance.</p> <p>(5) Installation of the A-kit commences once de-mod is complete and the A-kit has delivered.</p> <p>(6) Installation completion dates are phased to ensure smooth and efficient production flow at the contractor's production facility based on other aircraft that are in production.</p> <p>(7) MOB/FOB quantity of 5 represents 2 MOB's and 3 FOB's. Unit costs and delivery leadtimes will vary because the MOB contains additional mission systems and operator workstations as compared to the FOB.</p>		

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0596 / MQ-4 Series	Modification Number / Title: 2 / MQ-4C Triton Platform Systems Correction of Deficiencies and Modernization (OSIP 003-23)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	0.000	0.000	0.000	14.754	0.000	14.754	18.751	63.887	70.400	83.459	125.056	376.307
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	0.000	0.000	0.000	14.754	0.000	14.754	18.751	63.887	70.400	83.459	125.056	376.307
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	0.000	0.000	0.000	14.754	0.000	14.754	18.751	63.887	70.400	83.459	125.056	376.307

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

OSIP 003-23 provides funding for MQ-4C aircraft platform system modifications to modernize airframes, engines, core avionics, and incorporate aircraft structural enhancements and improvements to include ECPs to support updated FAA mandates (e.g. ADS B-out), GPS modernizations (e.g. M-Code), aircraft control surfaces, cyber and crypto modernization enhancements, Estimated Time on Station (ETOS) improvements (e.g. Thermo-Mechanical Expulsion Deicing System (TMEDS) removal) and improvements learned from Global Hawk (e.g. landing system and braking system improvements).

Funding is provided for airframe modifications to support changes in Size, Weight, Power, and Cooling (SWAP-C) requirements of aircraft and payload equipment or as part of the Rapid Capability Insertion (RCI) process, to incorporate Pace the Threat both on a temporary and permanent basis, and to incorporate aircraft and propulsion systems related service bulletins and technical directives. This OSIP provides funding for safety, reliability, maintainability, and suitability degradation in aircraft systems. Funding is also provided for Modernization requirements for avionics and airframe components via engineering changes. Effort includes the correction of supportability and interoperability deficiencies, resolution of aircraft systems obsolescence, and weight savings initiatives through insertion of commercial and government off the shelf (COTS/GOTS) technology onto the MQ-4C. Integration of already-qualified airborne systems will be primary solution sets, but if required, the ruggedization of the COTS/GOTS from land or water fielded systems may be pursued.

Modifications for the MQ-4C aircraft include, but are not limited to: ARC-210 radios upgrade (includes Mobile User Objective System Phase 1), communication avionics, Global Positioning System (GPS) M Code, Automated Collision Avoidance System (ACAS), Integrated Missions Management Computer (IMMC), Sense and Avoid, Anti-Ice / De-Ice, Electromagnetic Interference (EMI) and TEMPEST COD, Triton Airborne Recorder (TAR), Automatic Dependent Surveillance - Broadcast (ADS-B Out), airframe structure, maintenance device updates, Divert Kit, Fatigue Service Life Limiters, and other related systems.

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Exhibit P-3a, Individual Modification: PB 2024 Navy										Date: March 2023				
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0596 / MQ-4 Series					Modification Number / Title: 2 / MQ-4C Triton Platform Systems Correction of Deficiencies and Modernization (OSIP 003-23)				
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:							
Models of Systems Affected: MQ-4C Triton				Modification Type: Added capability				Related RDT&E PEs:						
Financial Plan	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total		
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)		
Procurement														
<i>Modification Item 1 of 1:</i> MQ-4C Triton Platform Systems Correction of Deficiencies and Modernization (OSIP 003-23)														
A Kits														
Recurring														
1.1.1) Air Vehicle Avionics Kit - NonOrganic	- / -	- / -	- / -	- / -	- / -	- / -	1 / 13.185	3 / 34.185	2 / 19.171	2 / 17.573	3 / 15.838	11 / 99.952		
1.1.2) Air Vehicle Communications Kit - NonOrganic	- / -	- / -	- / -	8 / 0.047	- / -	8 / 0.047	- / -	- / -	- / -	- / -	19 / 12.491	27 / 12.538		
Subtotal: Recurring	- / 0.000	- / -	- / -	- / 0.047	- / -	- / 0.047	- / 13.185	- / 34.185	- / 19.171	- / 17.573	- / 28.329	- / 112.490		
B Kits														
Recurring														
2.1.1) ADS-B Out Kit - NonOrganic	- / -	- / -	- / -	8 / 2.302	- / -	8 / 2.302	- / -	- / -	- / -	- / -	- / -	8 / 2.302		
2.1.2) Triton Airborne Recorder (TAR) Kit - NonOrganic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	9 / 4.973	6 / 6.072	6 / 6.473	4 / 3.518	25 / 21.036		
2.1.3) M Code Hardware Kit - NonOrganic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 2.837	17 / 34.109	19 / 36.946		
2.1.4) Aileron Hinge Fitting - NonOrganic	- / -	- / -	- / -	9 / 6.419	- / -	9 / 6.419	5 / 4.804	5 / 6.295	5 / 7.001	4 / 7.895	4 / 4.635	32 / 37.049		
2.1.5) Air Vehicle Avionics Kit - NonOrganic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 17.958	5 / 18.529	5 / 19.107	19 / 6.869	31 / 62.463		
2.1.6) Air Vehicle Communications Kit - NonOrganic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	19 / 7.915	19 / 7.915		
Subtotal: Recurring	- / 0.000	- / -	- / -	- / 8.721	- / -	- / 8.721	- / 4.804	- / 29.226	- / 31.602	- / 36.312	- / 57.046	- / 167.711		
Subtotal: MQ-4C Triton Platform Systems Correction of Deficiencies and Modernization (OSIP 003-23)	- / -	- / -	- / -	25 / 8.768	- / -	25 / 8.768	6 / 17.989	19 / 63.411	18 / 50.773	19 / 53.885	85 / 85.375	172 / 280.201		
Subtotal: Procurement, All Modification Items	- / 0.000	- / -	- / -	- / 8.768	- / -	- / 8.768	- / 17.989	- / 63.411	- / 50.773	- / 53.885	- / 85.375	- / 280.201		
Support (All Modification Items)														
3.2) Other Support	- / -	- / -	- / -	- / 0.306	- / -	- / 0.306	- / 0.312	- / 0.318	- / 0.425	- / 0.465	- / 1.327	- / 3.153		
Subtotal: Support	- / 0.000	- / -	- / -	- / 0.306	- / -	- / 0.306	- / 0.312	- / 0.318	- / 0.425	- / 0.465	- / 1.327	- / 3.153		
Installation														
Modification Item 1 of 1: MQ-4C Triton Platform Systems Correction of Deficiencies and Modernization (OSIP 003-23)	- / 0.000	- / 0.000	- / 0.000	- / 5.680	- / 0.000	- / 5.680	- / 0.450	- / 0.158	- / 19.202	- / 29.109	- / 38.354	- / 92.953		
Subtotal: Installation	- / 0.000	- / -	- / -	- / 5.680	- / -	- / 5.680	- / 0.450	- / 0.158	- / 19.202	- / 29.109	- / 38.354	- / 92.953		
Total														

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0596 / MQ-4 Series	Modification Number / Title: 2 / MQ-4C Triton Platform Systems Correction of Deficiencies and Modernization (OSIP 003-23)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Models of Systems Affected: MQ-4C Triton	Modification Type: Added capability	Related RDT&E PEs:
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Financial Plan	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Total Cost (Procurement + Support + Installation)	0.000	0.000	0.000	14.754	0.000	14.754	18.751	63.887	70.400	83.459	125.056	376.307

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0596 / MQ-4 Series	Modification Number / Title: 2 / MQ-4C Triton Platform Systems Correction of Deficiencies and Modernization (OSIP 003-23)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Modification Item 1 of 1: MQ-4C Triton Platform Systems Correction of Deficiencies and Modernization (OSIP 003-23)

Manufacturer Information

Manufacturer Name: Northrop Grumman	Manufacturer Location: Palmdale, CA
Administrative Leadtime (in Months): 6	Production Leadtime (in Months): 12

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates		Mar 2023	Mar 2024	Mar 2025	Mar 2026	Mar 2027	Mar 2028
Delivery Dates		Mar 2024	Mar 2025	Mar 2026	Mar 2027	Mar 2028	Mar 2029

Installation Information

Method of Implementation: Non-Organic:: Installation Name: Platform

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	16 / 5.680	0 / 0.000	16 / 5.680	9 / 0.450	- / -	- / -	- / -	0 / 0.000	25 / 6.130
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3 / 0.158	- / -	- / -	0 / 0.000	3 / 0.158
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	16 / 19.202	- / -	0 / 0.000	16 / 19.202
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	19 / 29.109	0 / 0.000	19 / 29.109
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	21 / 3.948	21 / 3.948
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	101 / 34.406	101 / 34.406
Total	- / -	- / -	- / -	16 / 5.680	0 / 0.000	16 / 5.680	9 / 0.450	3 / 0.158	16 / 19.202	19 / 29.109	122 / 38.354	185 / 92.953

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	16	-	-	-	3	3	3	-	3	-	-	-	7	6	3	-	13	4	2	122	185
Out	-	-	-	-	-	-	-	-	-	-	-	16	-	-	3	3	3	-	3	-	-	-	3	4	4	3	3	7	4	129	185

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0596 / MQ-4 Series	Modification Number / Title: 3 / MQ-4C Triton Ground Segment Technology Improvements (OSIP 004-23)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	0.000	0.000	0.000	4.057	0.000	4.057	1.055	1.258	1.289	34.338	38.833	80.830
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	0.000	0.000	0.000	4.057	0.000	4.057	1.055	1.258	1.289	34.338	38.833	80.830
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	0.000	0.000	0.000	4.057	0.000	4.057	1.055	1.258	1.289	34.338	38.833	80.830

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

OSIP 004-23 provides funding for MQ-4C ground segment capability upgrades and modifications to improve the Main Operating Bases (MOB) and Forward Operating Bases (FOB), modernize trainers and training systems, communication systems, networks and interoperability, and incorporate cyber and crypto modernization enhancements. This OSIP provides funding for safety, reliability, maintainability, and suitability degradation in the ground segment. Funding is also provided for modernization requirements to the ground segment via engineering changes.

This OSIP funds improvements identified as fleet-prioritized requirements or as a part of the Rapid Capability Insertion (RCI) process to address reliability improvements, obsolescence, periodic technology insertion, urgent operational needs, flight safety issues, corresponding changes to MOB/FOB/Mission System Trainer (MST) and technical directives. This OSIP corrects ground segment obsolescence, supportability, and interoperability deficiencies as well as providing insertion of commercial and government off the shelf (COTS/GOTS) technology. Integration of already-qualified systems will be primary solution sets, but if required the ruggedization of the COTS/GOTS from land or water fielded systems may be pursued. Modifications for the MQ-4C ground segment include, but are not limited to: ARC-210 radio upgrade (includes Mobile User Objective System Phase 1), communication avionics, software, cyber security, crypto-modernization, trainers, network interfaces, processor upgrades, Sense and Avoid ECP, System Integration Lab upgrade to IFC 4.0 and later configurations and Hardware-in-the-Loop (HITL) enhancements, maintenance device upgrades, and other related systems.

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0596 / MQ-4 Series	Modification Number / Title: 3 / MQ-4C Triton Ground Segment Technology Improvements (OSIP 004-23)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Models of Systems Affected: MQ-4C Triton	Modification Type: Added capability	Related RDT&E PEs:
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Financial Plan	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)

Procurement

Modification Item 1 of 1: MQ-4C Triton Ground Segment Technology Improvements (OSIP 004-23)												
A Kits												
Recurring												
1.1.1) Mobile User Objective System (MUOS) Phase 1 Kit (FOB) - NonOrganic	- / -	- / -	- / -	4 / 0.458	- / -	4 / 0.458	- / -	- / -	- / -	- / -	- / -	4 / 0.458
1.1.2) Mobile User Objective System (MUOS) Phase 1 Kit (MOB) - NonOrganic	- / -	- / -	- / -	6 / 0.038	- / -	6 / 0.038	- / -	- / -	- / -	- / -	- / -	6 / 0.038
1.1.3) FOB Mission Control Station (MCS) Kit - NonOrganic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3 / 1.605	12 / 7.655	15 / 9.260
1.1.4) MOB Mission Control Station (MCS) Kit - NonOrganic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	6 / 4.494	24 / 18.448	30 / 22.942
Subtotal: Recurring	- / 0.000	- / -	- / -	- / 0.496	- / -	- / 0.496	- / -	- / -	- / -	- / 6.099	- / 26.103	- / 32.698
Non-Recurring												
1.2.1) Hardware NRE: Command and Control Refresh - Organic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 5.754	- / -	- / 5.754
1.2.2) Hardware NRE: Processing & Exploitation - Organic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 6.942	- / -	- / 6.942
1.2.3) Software Re-host NRE: Command and Control Refresh - Organic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 5.276	- / -	- / 5.276
1.2.4) Software Re-host NRE: Processing & Exploitation - Organic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 8.886	- / -	- / 8.886
Subtotal: Non-Recurring	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 26.858	- / 0.000	- / 26.858
B Kits												
Recurring												
2.1.1) Triton Airborne Recorder (TAR) Kit - NonOrganic	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.797	1 / 0.813	1 / 0.829	1 / 0.845	3 / 2.535	7 / 5.819
Subtotal: Recurring	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / 0.797	- / 0.813	- / 0.829	- / 0.845	- / 2.535	- / 5.819
Subtotal: MQ-4C Triton Ground Segment Technology Improvements (OSIP 004-23)	- / -	- / -	- / -	10 / 0.496	- / -	10 / 0.496	1 / 0.797	1 / 0.813	1 / 0.829	10 / 33.802	39 / 28.638	62 / 65.375
Subtotal: Procurement, All Modification Items	- / 0.000	- / -	- / -	- / 0.496	- / -	- / 0.496	- / 0.797	- / 0.813	- / 0.829	- / 33.802	- / 28.638	- / 65.375
Support (All Modification Items)												
3.1) Other Support	- / -	- / -	- / -	- / 0.250	- / -	- / 0.250	- / 0.258	- / 0.266	- / 0.278	- / 0.350	- / -	- / 1.402

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0596 / MQ-4 Series	Modification Number / Title: 3 / MQ-4C Triton Ground Segment Technology Improvements (OSIP 004-23)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Models of Systems Affected: MQ-4C Triton	Modification Type: Added capability	Related RDT&E PEs:
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Financial Plan	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
<i>Subtotal: Support</i>	- / 0.000	- / -	- / -	- / 0.250	- / -	- / 0.250	- / 0.258	- / 0.266	- / 0.278	- / 0.350	- / 0.000	- / 1.402
Installation												
<i>Modification Item 1 of 1:</i> MQ-4C Triton Ground Segment Technology Improvements (OSIP 004-23)	- / 0.000	- / 0.000	- / 0.000	- / 3.311	- / 0.000	- / 3.311	- / 0.000	- / 0.179	- / 0.182	- / 0.186	- / 10.195	- / 14.053
<i>Subtotal: Installation</i>	- / 0.000	- / -	- / -	- / 3.311	- / -	- / 3.311	- / -	- / 0.179	- / 0.182	- / 0.186	- / 10.195	- / 14.053
Total												
Total Cost (Procurement + Support + Installation)	0.000	0.000	0.000	4.057	0.000	4.057	1.055	1.258	1.289	34.338	38.833	80.830

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0596 / MQ-4 Series	Modification Number / Title: 3 / MQ-4C Triton Ground Segment Technology Improvements (OSIP 004-23)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Modification Item 1 of 1: MQ-4C Triton Ground Segment Technology Improvements (OSIP 004-23)

Manufacturer Information

Manufacturer Name: Northrop Grumman	Manufacturer Location: Palmdale, CA
Administrative Leadtime (in Months): 6	Production Leadtime (in Months): 7

Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates			Dec 2023				
Delivery Dates			Jul 2024				

Installation Information

Method of Implementation: Non-Organic:: Installation Name: MUOS - Phase 1

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	10 / 3.311	0 / 0.000	10 / 3.311	- / -	- / -	- / -	- / -	0 / 0.000	10 / 3.311
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	10 / 3.311	0 / 0.000	10 / 3.311	- / -	- / -	- / -	- / -	0 / 0.000	10 / 3.311

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	-	-	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0596 / MQ-4 Series	Modification Number / Title: 3 / MQ-4C Triton Ground Segment Technology Improvements (OSIP 004-23)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Modification Item 1 of 1: MQ-4C Triton Ground Segment Technology Improvements (OSIP 004-23)

Installation Information

Method of Implementation: [none specified]:: Installation Name: FOB Mission Control Station (MCS) Kit

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3 / 0.248	3 / 0.248
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	12 / 2.976	12 / 2.976
Total	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	15 / 3.224	15 / 3.224

Installation Schedule

PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15	15
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15	15

Method of Implementation: [none specified]:: Installation Name: MOB Mission Control Station (MCS) Kit

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0596 / MQ-4 Series	Modification Number / Title: 3 / MQ-4C Triton Ground Segment Technology Improvements (OSIP 004-23)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Modification Item 1 of 1: MQ-4C Triton Ground Segment Technology Improvements (OSIP 004-23)

Installation Information

Method of Implementation: [none specified]:: Installation Name: MOB Mission Control Station (MCS) Kit

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	6 / 0.248	6 / 0.248
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	24 / 5.952	24 / 5.952
Total	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	30 / 6.200	30 / 6.200

Installation Schedule

PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	30	30
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	30	30

Method of Implementation: [none specified]:: Installation Name: Triton Airborne Recorder (TAR) Kit

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.179	- / -	- / -	0 / 0.000	1 / 0.179
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.182	- / -	0 / 0.000	1 / 0.182
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.186	0 / 0.000	1 / 0.186
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.190	1 / 0.190
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3 / 0.581	3 / 0.581
Total	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.179	1 / 0.182	1 / 0.186	4 / 0.771	7 / 1.318

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0596 / MQ-4 Series	Modification Number / Title: 3 / MQ-4C Triton Ground Segment Technology Improvements (OSIP 004-23)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Modification Item 1 of 1: MQ-4C Triton Ground Segment Technology Improvements (OSIP 004-23)

Installation Information

Method of Implementation: [none specified]:: Installation Name: Triton Airborne Recorder (TAR) Kit

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot	
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4			
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	1	-	-	-	1	-	-	4	7
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	1	-	-	-	1	-	4	7

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0596 / MQ-4 Series	Modification Number / Title: 4 / MQ-4C Triton Payloads Mission Systems Improvements and Technology Insertion (OSIP 005-23)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	8.081	31.264	44.961	81.305	165.611
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	8.081	31.264	44.961	81.305	165.611
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	8.081	31.264	44.961	81.305	165.611

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

OSIP 005-23 provides funding for MQ-4C Triton payloads upgrades to enable modifications to the mission systems in order to improve the Multi-Function Active Sensor (MFAS) and Sense and Avoid Radar, electro-optical/infrared (EO/IR) systems, Automatic Information Systems (AIS) and signals intelligence (SIGINT) system enhancements to include upgrading lab and early production payload WRAs (Weapon Replaceable Assembly) to keep pace with technology insertions. This OSIP provides funding for safety, reliability, maintainability, and suitability degradation in MQ-4C payloads. Funding is also provided for modernization requirements for MQ-4C payloads via engineering changes.

This OSIP funds improvements identified as fleet-prioritized requirements or as a part of the Rapid Capability Insertion (RCI) process to address reliability improvements, obsolescence, periodic technology insertion, urgent operational needs, and flight safety issues, corresponding changes to aircraft and technical directives. This OSIP corrects payload obsolescence, supportability, and interoperability deficiencies as well as providing weight savings initiatives through insertion of commercial and government off the shelf (COTS/GOTS) technology onto the MQ-4C.

Integration of already-qualified airborne systems will be primary solution sets, but if required the ruggedization of the COTS/GOTS from land or water fielded systems may be pursued. Modifications for the MQ-4C payloads include, but are not limited to: MFAS radar, EO/IR systems, Electronic Support Measures (ESM), Signals Intelligence (SIGINT), High and Low Band payloads, Alt Networks, Remote Quick Look (RQL), Higher Than Secret (HTS) payloads, Sense and Avoid Engineering Change Proposal (ECP), High Gain Aperture (HGA), maintenance device updates, and other related systems. This OSIP also allows the MQ-4C the flexibility to react in real-time against current and emergent threats with the most sophisticated equipment available. This flexibility allows upgrades to current aircraft and training systems, modernization of computer / software-based applications and will maintain Information Assurance requirements as upgrades are performed to support critical missions deemed vital to our national security.

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Exhibit P-3a, Individual Modification: PB 2024 Navy										Date: March 2023				
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1					P-1 Line Item Number / Title: 0596 / MQ-4 Series					Modification Number / Title: 4 / MQ-4C Triton Payloads Mission Systems Improvements and Technology Insertion (OSIP 005-23)				
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:							
Models of Systems Affected: MQ-4C Triton				Modification Type: Added capability				Related RDT&E PEs:						
Financial Plan	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total		
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)		
Procurement														
<i>Modification Item 1 of 1:</i> MQ-4C Triton Payloads Mission Systems Improvements and Technology Insertion (OSIP 005-23)														
B Kits														
Recurring														
2.1.2) Radar Signal Processor (RSP) Kit - NonOrganic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 7.491	13 / 55.579	15 / 63.070		
2.1.3) Alt Networks Kit - NonOrganic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 8.081	5 / 14.441	5 / 14.760	- / -	11 / 37.282		
2.1.4) High Gain Aperture (HGA) - NonOrganic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	8 / 9.574	8 / 9.870	10 / 14.604	26 / 34.048		
<i>Subtotal: Recurring</i>	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / 8.081	- / 24.015	- / 32.121	- / 70.183	- / 134.400		
<i>Subtotal: MQ-4C Triton Payloads Mission Systems Improvements and Technology Insertion (OSIP 005-23)</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 8.081	13 / 24.015	15 / 32.121	23 / 70.183	52 / 134.400		
<i>Subtotal: Procurement, All Modification Items</i>	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / 8.081	- / 24.015	- / 32.121	- / 70.183	- / 134.400		
Support (All Modification Items)														
3.1) Other Support	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.086	- / 2.164	- / 9.271	- / 13.521		
<i>Subtotal: Support</i>	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.086	- / 2.164	- / 9.271	- / 13.521		
Installation														
<i>Modification Item 1 of 1:</i> MQ-4C Triton Payloads Mission Systems Improvements and Technology Insertion (OSIP 005-23)	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 5.163	- / 10.676	- / 1.851	- / 17.690		
<i>Subtotal: Installation</i>	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 5.163	- / 10.676	- / 1.851	- / 17.690		
Total														
Total Cost (Procurement + Support + Installation)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	8.081	31.264	44.961	81.305	165.611		

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0596 / MQ-4 Series	Modification Number / Title: 4 / MQ-4C Triton Payloads Mission Systems Improvements and Technology Insertion (OSIP 005-23)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Modification Item 1 of 1: MQ-4C Triton Payloads Mission Systems Improvements and Technology Insertion (OSIP 005-23)

Manufacturer Information

Manufacturer Name: Northrop Grumman				Manufacturer Location: Palmdale, CA			
Administrative Leadtime (in Months): 6				Production Leadtime (in Months): 12			
Dates	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Contract Dates					Mar 2026	Mar 2027	Mar 2028
Delivery Dates					Mar 2027	Mar 2028	Mar 2029

Installation Information

Method of Implementation: Non-Organic:: Installation Name: Payload

Installation Cost	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 5.163	- / -	1 / 5.163
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	13 / 10.676	0 / 0.000	13 / 10.676
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	15 / 0.269	23 / 1.582	15 / 0.269
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	23 / 1.582	23 / 1.582
Total	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 5.163	13 / 10.676	38 / 1.851	52 / 17.690

Installation Schedule

	PYS	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	5	8	-	38	52
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	8	43	52

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Exhibit P-40, Budget Line Item Justification: PB 2024 Navy **Date:** March 2023

Appropriation / Budget Activity / Budget Sub Activity: 1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft	P-1 Line Item Number / Title: 0598 / RQ-21 Series
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	85.519	14.069	6.576	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-	106.164
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	85.519	14.069	6.576	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-	106.164
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	85.519	14.069	6.576	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-	106.164

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The requirement for the RQ-21A Unmanned Aircraft System is defined in a Capability Development Document, dated 18 November 2008 and further defined in the Capability Production Document, dated 15 February 2013. The RQ-21A program entered the Engineering and Manufacturing Development (EMD) phase of the acquisition process as an Acquisition Category III program on 26 July 2010. On 19 August 2014 RQ-21A was designated an Acquisition Category II program. Per USMC Force Design 2030, the USMC is divesting from the RQ-21A program beginning in FY21 and will complete divestiture in FY23. Office of the Chief of Naval Operations (OPNAV), Naval Special Warfare Branch (N951), directed the United States Navy (USN) divestment of RQ-21A via letter dated 23 January 2023. USN divestment will complete at the conclusion of FY25.

The RQ-21A system provides the Marine Expeditionary Force and subordinate commands (divisions and regiments) and USN Naval Special Warfare (NSW) a dedicated Intelligence, Surveillance, and Reconnaissance system capable of delivering intelligence products directly to the tactical commander in real time. The RQ-21A system is capable of providing actionable intelligence and communications relay for 12-hour continuous operations per day with a short surge capability of 24-hours continuous operations for 10 days. The system has an operating radius of 50 nautical miles, further extendable through hub and spoke operations. The Air Vehicle is capable of airspeeds up to 80 nautical miles per hour with a service ceiling of 15,000 feet. The Marine Corps has procured a quantity of 21 RQ-21 systems. The Navy has procured a quantity of 10 RQ-21 systems. There are no future plans to buy more RQ-21 systems at this time, but System Component.

An RQ-21A system consists of five air vehicles, two ground control stations, modular multi-mission plug and play payloads, one launcher, one recovery system, and support equipment. Standard payloads include a turret mounted Electro Optic/Infrared (EO/IR) camera and a communications relay package with automated identification ship capability, carried in the payload bay.

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Exhibit P-40, Budget Line Item Justification: PB 2024 Navy				Date: March 2023	
Appropriation / Budget Activity / Budget Sub Activity: 1506N: Aircraft Procurement, Navy / BA 05: Modification of Aircraft / BSA 1: Modification of Aircraft				P-1 Line Item Number / Title: 0598 / RQ-21 Series	
ID Code (A=Service Ready, B=Not Service Ready): A		Program Elements for Code B Items: N/A		Other Related Program Elements: N/A	
Line Item MDAP/MAIS Code: N/A					

Exhibits Schedule					Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	1 / RQ-21 Correction Of Deficiencies (004-20) (Correction of Deficiencies)				- / 85.519	- / 14.069	- / 6.576	- / 0.000	- / 0.000	- / 0.000
P-40	Total Gross/Weapon System Cost				- / 85.519	- / 14.069	- / 6.576	- / 0.000	- / 0.000	- / 0.000

Exhibits Schedule					FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	1 / RQ-21 Correction Of Deficiencies (004-20) (Correction of Deficiencies)				- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 106.164
P-40	Total Gross/Weapon System Cost				- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / -	- / 106.164

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

Justification:

The FY 2024 funding request was adjusted from \$5.551M to \$0.00 in support of directed divestment.

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0598 / RQ-21 Series	Modification Number / Title: 1 / RQ-21 Correction Of Deficiencies (004-20)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	85.519	14.069	6.576	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	106.164
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	85.519	14.069	6.576	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	106.164
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	85.519	14.069	6.576	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	106.164

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The RQ-21A BLACKJACK will divest by direction of Deputy Commandant, Combat, Development and Integration (CD&I) via letter dated February 22,2021 and Office of the Chief of Naval Operations (OPNAV), Naval Special Warfare Branch (N951) via letter dated January 23, 2023.

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Exhibit P-3a, Individual Modification: PB 2024 Navy										Date: March 2023			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1				P-1 Line Item Number / Title: 0598 / RQ-21 Series						Modification Number / Title: 1 / RQ-21 Correction Of Deficiencies (004-20)			
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:						
Models of Systems Affected: RQ-21				Modification Type: Correction of Deficiencies				Related RDT&E PEs: 0305239M, 0305234N					
Financial Plan	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
<i>Modification Item 1 of 1: RQ-21 Correction Of Deficiencies (004-20)</i>													
B Kits													
Recurring													
1.1.1) EO/IR Turret Upgrade - Organic - Organic	15 / 45.144	18 / 4.590	5 / 5.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	38 / 54.734	
1.1.2) Mast Upgrade - Organic	14 / 5.590	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	14 / 5.590	
1.1.3) SURFR Payload Suite - USN - Organic	25 / 18.750	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	25 / 18.750	
1.1.4) ViDAR payload - USN - Organic	18 / 3.600	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	18 / 3.600	
1.1.5) UHF/VHF/IFF Transponder Communications - USN - Organic	37 / 3.034	10 / 1.000	20 / 1.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	67 / 5.034	
1.1.6) Other System Configuration Changes - Organic	- / 2.020	- / 4.786	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 6.806	
1.1.7) Alternative Navigation and GPS Upgrades - Organic	- / -	- / 1.413	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.413	
<i>Subtotal: Recurring</i>	<i>- / 78.138</i>	<i>- / 11.789</i>	<i>- / 6.000</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / 0.000</i>	<i>- / 95.927</i>	
<i>Subtotal: RQ-21 Correction Of Deficiencies (004-20)</i>	<i>109 / 78.138</i>	<i>28 / 11.789</i>	<i>25 / 6.000</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>162 / 95.927</i>	
<i>Subtotal: Procurement, All Modification Items</i>	<i>- / 78.138</i>	<i>- / 11.789</i>	<i>- / 6.000</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / 0.000</i>	<i>- / 95.927</i>	
Support (All Modification Items)													
2.1) ILS	- / 2.223	- / 1.022	- / 0.305	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 3.550	
2.2) Data	- / 1.222	- / 0.205	- / 0.054	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.481	
2.3) Other Support	- / 3.936	- / 1.053	- / 0.217	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 5.206	
<i>Subtotal: Support</i>	<i>- / 7.381</i>	<i>- / 2.280</i>	<i>- / 0.576</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / 0.000</i>	<i>- / 10.237</i>	
Installation													
<i>Subtotal: Installation</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	
Total													
Total Cost (Procurement + Support + Installation)	85.519	14.069	6.576	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	106.164	

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Exhibit P-3a, Individual Modification: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 05 / 1	P-1 Line Item Number / Title: 0598 / RQ-21 Series	Modification Number / Title: 1 / RQ-21 Correction Of Deficiencies (004-20)
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:
Modification Item 1 of 1: RQ-21 Correction Of Deficiencies (004-20)		

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