DEPARTMENT OF HOMELAND SECURITY
U.S. COAST GUARD

FEDERAL FIXED AID TO NAVIGATION OPERATION REQUEST SUPPLEMENT

(See Page 2 for Instructions)

1. Project Number:	2. Aid Name:	3. Light List Number:	4. Date:
5. Aid Description Type:	6. Aid Position: A. Latitude: B. Longitude:	7. Request Type *(Provide Details in the Remarks)*: ☐ Establish ☐ Relocate ☐ PC&I Rebuild ☐ Other	

8. LIGHT SIGNAL REQUIREMENTS

A. Operational Range Requirement *(In Nautical Miles)*:	B. Percent Visibility Requirement: ☐ 90% *(Range Light/Major Aid)* ☐ 80% *(Minor Aid)*	C. Metrological Visibility *(In Nautical Miles)*:	D. Required Effective Intensity *(In Candela)*:

9. LIGHT SIGNAL EQUIPMENT

A. Check one: ☐ Primary _____ ☐ Secondary ☐ Emergency

		EXISTING	NEW		EXISTING	NEW
B. Lantern/ Optic	(1) Type & Color:			F. Light Characteristic *(Include Flash Duration (CCT))*:		
	(2) RPM *(If a Rotating Lantern)*:			G. Lamps - Incandescent Only *(Amps, Watts, & Voltage)*:		
	(3) Spread Lens Size or Condensing Panel:			H. Effective Intensity *(In Candela)*:		
C. Number of LED Tiers:				I. Nominal Range:		
D. LED Intensity Setting:				J. Flasher Type/Model:		
E. Hours of Operation *(Day, Night, or 24-Hours/Day)*:				K. Special Equipment *(Continue in Block 14 if necessary)*:		

10. SOUND SIGNAL EQUIPMENT

A. Operational Range Requirement			B. Signal Equipment Type:		

11. RACON			12. AIS		
A. Morse Code:			A. Manufacturer:		
B. System *(Model Number)*:			B. Assigned MMSI:		

13. POWER SUPPLY

A. Battery (s)	(1) Type & Number:			B. Solar Panel(s) - Size & Number:		
	(2) Design Purpose & Total Amp Hour Capacity:			C. Commercial Power Information:		
	(3) Manufacturer & Model:					

14. STRUCTURE

A. Site:	☐ Marine ☐ Terrestrial	☐ Marine ☐ Terrestrial	E. Focal Plane Height:
B. Foundation Type *(Include Number of Piles)*:			F. Ground Elevation/Water Depth *(Include Datum)*:
C. Structure Type *(Include Structure Height)*:			G. Day Boards *(Include Type, Size, & Number)*:
D. Tower Dimensions *(Include Height & Type)*:			H. Special Equipment:

I. Structure Remarks:

15. REMARKS *(Continue on Page 2 if Necessary)*

15. REMARKS *(Continued)*

INSTRUCTIONS

(NOTE: Use this form for all Fixed Aids to Navigation & form CG-3213B for all Floating Aids to Navigation)

1. Must be the same as the applicable CG-3213.

2&3. Enter the aid name as it appears or will appear in the Light List. Enter Light List Number.

4. Enter the date submitted.

5. Enter the aid description consistent with I-ATONIS nomenclature *(e.g. Light, Light Major Aid (LTMA), Range Rear (RR), etc.)*.

6. Enter the aid's position to the thousandths of a second. When relocating an aid, enter the new position in this block & document the position change in the remarks block (Item 15) *(e.g. from position XX-XX-XX.xxx, YYY-YY-YY.yyy to position XX-XX-XX.xxx, YYY-YY-YY.yyy)*.

7. Check the block that applies.

8. Enter Light Signal Requirements.

8A. Operational Range is the distance determined by the waterways manager at which a light should be seen for a specified percentage of time *(Percent Visibility Requirement)*.

8B. Percent Visibility Requirement is 90% for Major Aids & Range Lights, & 80% for Minor Aids.

8C. Metrological Visibility is a measure of the atmospheric clarity in a particular location.

8D. Required Effective Intensity is the minimum intensity required to meet the Operational Range Requirement. Values entered in Items 8C & 8D are found in the Visual Design Manual *(COMDTINST M16510 (series))*, & blocks D4 & D22 respectively, in the Allard's Law Worksheet.

NOTE: Refer to the Range Design Manual for calculating these values for Range Lights *(COMDTINST M16500.4 (series))*.

9. Consult the most current edition of the Aids to Navigation - Technical Manual *(COMDTINST M16500.3 (series))* to accurately complete this section.

9A. Indicate whether this form is for the primary, secondary, or emergency light of the ATON by checking the appropriate box.

9F. Enter the light characteristic and include the flash duration/ Contact Closure Time *(CCT) (e.g. FL 4 (0.4))*.

9G. Enter "LED" for LED optic.

10. Enter applicable current and new sound signal equipment information.

11. Enter applicable RACON Morse Code & System. RACONs are obtained through the SILC Waterways Operations Product Line (WOPL). Contact WOPL for most current ordering procedures. All RACON models shall be System VI or newer.

12. Enter the applicable AIS manufacturer and assigned MMSI. Leave MMSI blank if no MMSI currently assigned.

13. Enter applicable current and new Power Supply information. Consult the most current edition of the Aids to Navigation - Technical Manual *(COMDTINST M16500.3 (series))* to accurately complete this section.

13A(1). Enter the type & number of battery(s) in system *(e.g. Large Lead-Acid, 01)*.

13A(2). Enter battery system purpose & total system amp hours *(e.g. Primary or Backup, 1200ah)*.

13A(3). Enter the battery manufacturer & model.

14. Enter the applicable structure information consistent with I-ATONIS nomenclature. Consult the Aids to Navigation - Administration Manual *(COMDTINST M16500.7 (series))* for guidance on calculating the structure height & focal plane height.