



U.S. AIR FORCE

Technical Implementation Guide 1-13

For

NFPA Standard 1, *Fire Code*, 2012

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Preface


This Technical Implementation Guide (TIG) provides standard Air Force determinations, clarifications, interpretations, equivalencies, and deviations to implement National Fire Protection Association (NFPA) 1, *Fire Code Handbook* (2012 Edition) in the Air Force.

This TIG remains in effect until rescinded or one year following the publication of a revised NFPA Standard 1.

All MAJCOM Civil Engineers, the USAF Academy Civil Engineer and the Air National Guard Civil Engineer have coordinated on this TIG. Correspondence in this regard is maintained on file at AFCEC/CXF, Tyndall AFB, FL.

This TIG includes one attachment:

1. Attachment 1 - NFPA Standard 1 Correlation Document


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Attachment 1

NFPA 1, Fire Code, 2012 Edition	Air Force Implementation Matrix
Chapter 1 - Administration	Adopt as written with the following clarifications.
1.1 through 1.3	Implement as written.
1.4	Clarification: Does not apply to the Air Force and/or conflict with or duplicate other DOD or Air Force guidance.
1.5	Implement as written.
1.6 through 1.16	Clarification: Does not apply to the Air Force and/or conflict with or duplicate other DOD or Air Force guidance.
Chapter 2 - Referenced Publications	Clarification: Implement as written with the following clarification. All referenced publications can be found in Unified Facilities Criteria (UFC), Engineering Technical Letters (ETL), Department of Defense Instruction (DODI), Air Force Instruction (AFI), and Air Force Occupational Safety and Health Standards (AFOSH) must be considered during all project plans reviews and fire inspections. Where the requirements of this code or a referenced code or standard differ from DoD/AF criteria, the DoD/AF criteria shall govern.
Chapter 3 - Definitions	Clarification: Implement as written with the following clarification. Numerous definitions reference older versions of NFPA codes. Use most current version.
Chapter 4 – General Requirements	Adopt as written with the following clarifications.
4.1 through 4.4.6	Implement as written.
4.5 through 4.5.3	Clarification: Implement as written.
4.5.4	Clarification: Implement as written with the following clarification. Conformance to the minimum protection requirements for DOD facilities as outlined in current UFCs is mandatory. The occupancy of facilities not conforming to the established minimums will jeopardize lives and property. Occupancy shall not be granted for new construction and buildings that have alteration, modernization, modification, and rehabilitation unless the UFC minimum protection features are designed and installed.
4.5.5 through 4.5.6.3	Implement as written.
4.5.7	Clarification: Implement as written with the following clarification. UFC 3-600-01, Chapter 1, Introduction, paragraph 1-3.2.4.
4.5.8 through 4.5.10.5	Clarification: Implement as written with the following clarification. Requirements outlined in UFC 3-601-02, Operation and Maintenance: Inspection, Testing, and Maintenance of Fire Protection Systems take precedence.
Chapter 5 - Performance-Based Option	Clarification: Implement as written with the following clarification. Requirements outlined in UFC 3-600-01, paragraphs 1-3.4 Performance-Based Fire Safety Design take precedence.
Chapter 6 – Classification of Occupancy	Implement as written.
Chapter 7 through Chapter 9- Reserved for Future Use	Implement as written.
Chapter 10 - General Fire Safety	
10.1 through 10.3.4	Implement as written.
10.4	Implement as written with the following clarification. UFC 3-601-02, Operation and Maintenance: Inspection, Testing,

	and Maintenance of Fire Protection Systems.
10.5 through 10.9.3.7	Clarification: Implement as written with the following clarification. AFI 91-203, Chapter 6, Emergency Evacuation Procedures, paragraph 6.2.15.1 through 6.2.15.8.
10.10	Clarification: Implement as written with the following clarification. AFI 40-102, Tobacco use in the Air Force.
10.11 through 10.14.2	Implement as written.
10.14.3 and A.10.14.3*	Clarification: Implement as written with the following clarification. AFI 91-203, Air Force Consolidated Occupational Safety Instruction, Chapter 6, Decorations, paragraph 6.2.13.1 through 6.2.13.5.
10.14.4 through 10.20.1.4	Implement as written.
Chapter 11 - Building Services	
11.1	Clarification: Implement as written with the following clarification. AFI 91-203, Air Force Consolidated Occupational Safety Instruction, Chapter 8, Electrical Safety.
11.2	Implement as written.
11.3	Clarification: Implement as written with the following clarification. UFC 3-600-01, paragraph 6-30, Protection of Elevator Machine Rooms and Hoist Ways.
11.4	Implement as written.
11.5	Clarification: Implement as written with the following clarification. AFI 91-203, Air Force Consolidated Occupational Safety Instruction, Chapter 6, Heat Producing Appliances, paragraph 6.2.10.1 through 6.2.12.3.
11.6 through 11.9	Clarification: Implement as written with the following clarification. UFC 3-600-01, paragraph 6-29, Trash Collection and Disposal Facilities; 6-28, Power Generating and Utilization Equipment.
11.10 through 11.12.3.2	Implement as written.
Chapter 12 - Features of Fire Protection	
Clarification: Implement as written with the following clarification. UFC 1-200-01 and 3-600-01 provides additional references to the IBC, UFC, NFPA and ETL's.	
Chapter 13 - Fire Protection Systems	
13.1	Implement as written.
13.1.2	Clarification: Implement as written with the following clarification. Appropriate CE Shop inspects, tests, repairs, and maintains. See AFI 32-2001 for further information.
13.1.3 through 13.1.4.1	Implement as written.
13.1.5	Clarification: Implement as written with the following clarification. Appropriate CE Shop inspects, tests, repairs, and maintains. See AFI 32-2001 for further information.
13.1.6 through 13.2.2.1	Implement as written.
13.2.2.2	Clarification: Class I standpipe systems shall be provided where UFC 3-600-01, paragraph 4-5.1 required.
13.2.2.3 through 13.2.2.4.1	Implement as written.
13.2.2.4.2	Clarification: Implement as written with the following clarification. Reference to Class II and Class III standpipes systems does not apply. See UFC 3-600-01, paragraph 4-5.2.
13.2.2.5 and 13.2.2.5(1)	Implement as written.
13.2.2.5.1	Clarification: Implement as written with the following clarification. Reference to Class II and Class III standpipes systems does not apply. See UFC 3-600-01, paragraph 4-5.2.

13.2.3 through 13.2.3.4.2	Clarification: Implement as written with the following clarification. Requirements outlined in UFC 3-601-02 take precedence.
13.3 through 13.3.2.10.5	Clarification: Implement as written with the following clarification. Requirements outlined in UFC 3-600-01 take precedence.
13.3.2.11 through 13.3.2.12.11*	Clarification: Implement as written with the following clarification. Requirements outlined in UFC 4-510-01, Design: Medical Military Facilities take precedence.
13.3.2.13 through 13.3.2.18.6*	Implement as written.
13.3.2.19 through 13.3.2.19.3.6	Clarification: Implement as written with the following clarification. Requirements outlined in UFC 4-720-01, Lodging Facilities take precedence.
13.3.2.20 through 13.3.3.4.3.5	Implement as written.
13.3.3.5 through 13.3.3.5.2.4	Clarification: Implement as written with the following clarification. UFC 3-601-02 establishes inspections, testing, and maintenance of fire protection systems.
13.3.3.5.3* through 13.3.3.6.7(5)	Implement as written.
13.4 through 13.4.9.1.4.2	Clarification: Implement as written with the following clarification. Requirements in UFC 3-600-01, 3-6 Fire Pumps take precedence. UFC 3-601-02 establishes inspections, testing, and maintenance of fire protection systems.
13.5 through 13.5.3.1	Clarification: Implement as written with the following clarification. See other requirements outlined in UFC 3-601-01, paragraph 3.7, Water Distribution Systems.
13.5.4 through 13.5.4.2	Clarification: Implement as written with the following clarification. UFC 3-601-02 establishes inspections, testing, and maintenance of fire protection systems.
13.6 through A.13.6.2	Clarification: Implement as written with the following clarification. See AFI 91-203, Air Force Consolidated Occupational Safety Instruction, paragraph 6.2.4.1.1. Provide fire extinguishers IAW NFPA 101 or when specifically required by DoD or AF guidance. Note: Table 13.6.2 does not apply.
13.6.3 through 13.6.7.4.7.2	Implement as written.
13.6.7.5 through 13.6.7.5.2	Clarification: Implement as written with the following clarification. Fire extinguishers shall be provided for specific applications as required by AFI 91-203, Air Force Consolidated Occupational Safety Instruction, Chapter 6, paragraph 6.2.4 1.1 and applicable standards listed in 13.6.7.5.1. Fire extinguishers shall also be provided as required by Air Force Technical Order (T.O.).
13.6.8 through 13.6.8.6.3	Implement as written.
13.6.9 through 13.6.9.2.1.1	Clarification: AFI 91-203, Air Force Consolidated Occupational Safety Instruction for Inspection, Maintenance, and Recharging of Portable Fire Extinguisher.
13.6.9.2.1.2	Clarification: Implement as written with the following clarification. Extinguisher inspections are to be performed 12 times per year, once per month.
13.6.9.2.1.2.1 through 13.6.11.2.3	Implement as written.
13.7 through 13.7.1.5	Clarification: Implement as written with the following clarification. Requirements outlined in UFC 3-600-01,

	paragraph 5.4, Automatic Fire Detection Systems. UFC 3-601-02 establishes inspections, testing, and maintenance of fire protection systems.
13.7.2 through 13.7.2.27.2.2.2	Clarification: Implement as written with the following clarification. Requirements outlined in UFC 3-600-01, paragraph 5.4, Automatic Fire Detection Systems.
13.7.3 through 13.7.3.2.4.2	Clarification: Implement as written with the following clarification. Requirements outlined in UFC 3-600-01, paragraph 5.2, Fire Alarm Reporting Systems.
13.7.3.3 through 13.7.4.7.7	Clarification: Implement as written with the following clarification. UFC 3-601-02 establishes inspections, testing, and maintenance of fire protection systems.
13.7.5* through 13.9.2	Implement as written.
Chapter 14 - Means of Egress	Clarification: Implement as written with the following clarification. Further guidance found in UFC 3-600-1. For child care facilities reference UFC 4-740-14, Design: Child Development Centers.
Chapter 15 - Fire Department Service Delivery Concurrency Evaluation	Implement as written.
Chapter 16 - Safeguarding Construction, Alteration, and Demolition Operations	Clarification: Implement as written with the following clarification. See other requirements in UFC 3-600-01, paragraph 1-6, Fire Protection During Construction.
Chapter 17 - Wildland Urban Interface	Clarification: Implement as written with the following clarification. "See other requirements in UFC 3-600-01, paragraph 1-7, Ranges and Remote Locations."
Chapter 18 - Fire Department Access and Water Supply	
18.1 through 18.1.3.2	Implement as written.
18.2 through 18.2.3.1.4	Clarification: Implement as written with the following clarification. UFC 3-600-01, paragraph 2-10.2, Vehicle Access. All force protection equipment, such as bollards or gates, must not require more than one person to remove or open. Access may require fire apparatus to drive over a curb. Any locking device controlling vehicle access must be under control of the Fire Department or 24-hour security personnel located at the specific facility. Dimensions of fire lanes and turnarounds must comply with NFPA 1, Fire Code.
18.2.3.2 through 18.2.3.2.1	Clarification: Implement as written with the following clarification. UFC 3-600-01, paragraph 2-10.1, "All buildings greater than 5,000 sq ft (465 m), or more than two stories in height must have at least one means of all-weather ground access to allow emergency vehicles unimpeded access to the building. All-weather ground access must be paved, start from the road, and terminate no farther than 10 m (33 ft) from the building. An engineered all-weather surface that is not paved may be provided if approved by the AHJ.
18.2.3.2.1.1	Clarification: Implement as written with the following clarification. UFC 3-600-01, paragraph, 2-10.1.1, Access to Residential Facilities. Residential facilities must be provided with all-weather ground access to 3 sides, with a minimum of 2 sides having access to sleeping rooms.
18.2.3.2.2	Clarification: Implement as written with the following clarification. UFC 3-600-01, paragraph, 2-10.3, Aerial Apparatus Access. New facilities four stories or more in

	height and all new warehouses must be provided with suitable all-weather ground access surface for aerial apparatus on a minimum of two sides of the perimeter of the structure.
18.2.3.2.2.1 through 18.2.4.2.6	Implement as written.
18.3	Clarification: Implement as written with the following clarification. UFC 3-600-01, paragraph, 2-10.4, Fire Department Connection. Facilities with fire department connections for sprinkler or standpipe systems must be provided with suitable all-weather ground access surface for pumper apparatus within 45 m (150 ft) of such fire department connections.
18.4 through 18.4.5..3	Clarification: Implement as written with the following clarification. Requirements outlined in UFC 3-600-01, paragraphs 3-1 & 3-2 Water Demands for Sprinklered Facilities and Water Demands for Unsprinklered Facilities shall take precedence.
18.5 through 18.5.7.3	Clarification: Implement as written with the following clarification. Requirements outlined in UFC 3-600-01, paragraphs 3.7.3 through 3.7.3.4 Fire Hydrants shall take precedence.
Chapter 19 - Combustible Waste and Refuse	Implement as written.
Chapter 20 - Occupancy Fire Safety	
20.1 through 20.1.4.6	Implement as written.
20.1.4.7	Clarification: Implement as written with the following clarification. Also see ETL 99-4, Emergency Lighting and Marking of Exits with Change 1.
20.1.4.8 through 20.1.5.1.3	Implement as written.
20.1.5.2 through 20.1.5.2.4	Clarification: Implement as written with the following clarification. Requirements outlined in AFI 91-203, Air Force Consolidated Occupational Safety Instruction shall take precedence.
20.1.5.2.4.1 through 20.2.4.5	Implement as written.
20.3	Clarification: Implement as written with the following clarification. Requirements outlined in UFC 4-740-14, Child Development Center and UFC 4-740-06 Youth Centers shall take precedence.
20.4	Clarification: Implement as written with the following clarification. Requirements outlined in UFC 4-510-01, Design: Medical Military Facilities shall take precedence.
20.5	Implement as written.
20.6	Clarification: Implement as written with the following clarification. See UFC 4-510-01, Design: Medical Military Facilities shall take precedence.
20.7 through 20.9.4.2	Implement as written.
20.10	Clarification: Implement as written with the following clarification. See UFC 4-720-01, Lodging Facilities shall take precedence.
20.11	Clarification: Implement as written with the following clarification. See UFC 4-711-01, Family Housing shall take precedence.
20.12 through 20.15.8.3.3	Implement as written.
20.16	Clarification: Implement as written with the following

	clarification. UFC 3-600-01, paragraph 6-38, High Rise Buildings provides additional safety measures.
20.17	Implement as written.
Chapter 21 - Airports and Heliports	
21.1 through 21.1.2	Clarification: Implement as written with the following clarification. ETL 98-8, Fire Protection Engineering Criteria - Existing Aircraft Facilities, with Change 1 and ETL 02-15, Fire Protection Engineering Criteria - New Aircraft Facilities supplements NFPA 409, Standard on Aircraft Hangars. Note: UFC 3-600-01, paragraph 6-16, Note 1 refers the engineer, designer, inspector to the above mentioned ETLs.
21.1.3 through 21.1.3.2	Clarification: Implement as written with the following clarification. AFI 40-102, Tobacco Use in the Air Force. AFI takes precedence. Installation commander is responsible for the establishment of the smoking policy for his/her installation.
21.1.4* through 21.2.6.1	Implement as written.
21.2.6.2	Clarification: Implement as written with the following clarification. UFC 3-600-01, Complete automatic sprinkler protection must be provided in all new or renovated DoD facilities.
21.2.6.3	Implement as written.
21.2.6.4	Clarification: Implement as written with the following clarification. UFC 3-600-01, paragraph, 3-7.3.3, all parts of the building exterior must be within 106 m (350 ft) of a hydrant with consideration given to accessibility and obstructions.
21.2.6.5* through 21.3.5.2	Implement as written.
Chapter 22 - Automobile Wrecking Yards	
22.1 through 22.8	Implement as written.
22.9 through 22.9.1	Clarification: Implement as written with the following clarification. AFI 91-203, Air Force Consolidated Occupational Safety Instruction, Chapter 22, Flammable and Combustible Liquids. Local CE Environmental Flight policies and host nation laws and codes shall be honored.
22.9.2 through 22.9.5.2	Implement as written.
Chapter 23 - Cleanrooms	Implement as written.
Chapter 24 - Dry cleaning	Implement as written.
Chapter 25 - Grandstands and Bleachers, Folding and Telescopic Seating, Tents, and Membrane Structures	
25.1 through 25.5.1.4	Implement as written.
25.5.1.5.1	Clarification: NFPA 1 references NFPA 701, <i>Standard Methods of Fire Tests for Flame Propagation of Textiles and Films</i> . UFC 3-600-01, paragraph 6-31.2.4, references ASTM E 136 Standard Test method for Behavior of Materials in a Vertical Tube Furnace at 750 C. Materials must have passed the ASTM E 136 standard.
25.5.1.5.2 through 25.6.1.3	Implement as written.
25.6.1.4 through 25.6.1.4.3	Clarification: Implement as written with the following clarification. NFPA 1 references NFPA 701, <i>Standard Methods of Fire Tests for Flame Propagation of Textiles and Films</i> . UFC 3-600-01, paragraph 6-31.2.4, references ASTM

	E 136 Standard Test method for Behavior of Materials in a Vertical Tube Furnace at 750 ⁰ C. Materials must have passed the ASTM E 136 standard.
25.6.2 through 25.6.6.2	Implement as written.
Chapter 26 - Laboratories Using Chemicals	Implement as written.
Chapter 27 - Manufactured Home and Recreational Vehicle Sites	Implement as written.
Chapter 28 - Marinas, Boatyards, Marine Terminals, Piers, and Wharves	
28.1.1	Clarification: Implement as written with the following clarification. Chapter 28 addresses non-commercial facilities and would be appropriate for yacht clubs and other rental marinas operated on base. The UFCs would be appropriate for operational waterfront facilities or commercial waterfront/harbor facilities operated on base. UFC 3-600-01, paragraph 6-13, Waterfront Facilities directs compliance with several UFCs. UFC 3-600-01, paragraph 6-13, Waterfront Facilities, UFC: 4-152-01, Piers and Wharves; UFC 4-150-02, Dockside Utilities; UFC 4-151-10, General Criteria for Waterfront Construction; UFC 4-213-10, Graving Drydocks, and UFC 4-213-12, Drydocking Facilities Characteristics.
28.1.2 through 28.3.4	Implement as written.
Chapter 29 - Parking Garages	
29.1.1	Clarification: Implement as written with the following clarification. Reference UFC 3-600-01, paragraph 6-22, NFPA 88A, Parking Structures, NFPA 30A, Code for Motor Fuel Dispensing Facilities and Repair Garages, NFPA 70, National Electrical Code.
29.1.2 through 29.1.3	Implement as written.
Chapter 30 - Motor Fuel Dispensing Facilities and Repair Garages	
30.1 through A.30.1.6.9	Clarification: Implement as written with the following clarification. Air Force guidance within UFC 3-600-01, section 6-14. Petroleum fuel facilities must comply with UFC 3-460-01, Petroleum Fuel Facilities.
30.2.1	Implement as written.
30.2.1.1	Clarification: Implement as written with the following clarification. Welding, Cutting, Brazing permits shall be IAW AFI 91-203, Air Force Consolidated Occupational Safety Instruction, Chapter 27, Air Force Consolidated Occupational Safety Instruction.
30.2.2 through 30.2.8.4	Implement as written.
30.2.9 through 30.2.9.4	Clarification: Implement as written with the following clarification. Air Force guidance within UFC 3-410-01FA, Heating, Ventilation, and Air Conditioning, section 3-2.3. Note: Warm Air. Do not use gravity flow warm air furnaces. Direct-fired heaters are prohibited in areas subject to hazardous concentrations of flammable gas, vapors, or dust.
30.3 through 30.3.1.2	Implement as written.
30.3.2.1	Clarification: Implement as written with the following clarification. Open flame and smoking restrictions more stringent in OSHA established standards. AFOSH Standards

	provides guidance for flammable and combustible materials. Air Force equivalency is AFI 91-203, Air Force Consolidated Occupational Safety Instruction, Chapter 22, Flammables and Combustibles. Open flame or smoking will not be permitted in or within 50 feet of flammable or combustible liquid storage areas (CFR 1910.106).
30.3.2.2 through 30.3.5	Implement as written.
Chapter 31 - Forest Products	Implement as written.
Chapter 32 - Motion Picture and Television Production Studio Soundstages and Approved Production facilities	Implement as written.
Chapter 33 - Outside Storage of Tires	Implement as written.
Chapter 34 - General Storage	Clarification: Implement as written with the following clarification. UFC 3-600-01 and AFI 91-203, Air Force Consolidated Occupational Safety Instruction should be consulted for further guidance.
Chapter 35 - Animal Housing Facilities	Implement as written.
Chapter 36 - Telecommunication Facilities and Information Technology Equipment	Clarification: Implement as written with the following clarification. Must comply with ETL 01-18, Electronic Equipment Installations and UFC 3-600-01 Paragraph 6-8 and 6-9 for electronic equipment installations and telecommunication rooms and buildings.
Chapter 37 - Fixed Guideway Transit and Passenger Rail Systems	Implement as written.
Chapter 38 and 39 - Reserved for Future Use	
Chapter 40 - Dust Explosion and Fire Prevention	Implement as written.
Chapter 41 - Welding, Cutting, and other Hot Work	Clarification: Implement as written with the following clarification. Further guidance found in AFI 91-203, Air Force Consolidated Occupational Safety Instruction, Chapter 27, Welding, Cutting and Brazing which takes precedence.
41.1 through 41.3.2.1	Implement as written.
41.3.2.2 through 41.3.2.2.1	Clarification: Implement as written with the following clarification. A specific area will be designated or approved by the installation fire department and Bio-environmental authorities for welding and cutting operations. It will be of noncombustible or fire resistive construction appropriate for its hazard classification, free of combustibles and flammable materials, and segregated from adjacent areas. AFI 91-203, Air Force Consolidated Occupational Safety Instruction, paragraph 27.3.12.1, Inside Areas.
41.3.2.2.2.1 through 41.6.2	Implement as written.
Chapter 42 - Refueling	
42.1 through 42.9.10.8	Implement as written.
42.10 through 42.11.3.1	Clarification: Implement as written with the following clarification. T.O. 00-25-172, Ground Servicing of Aircraft and Static Grounding/Bonding and AFI 21-101, Aircraft and Equipment Maintenance Management. MAJCOM and local supplements may differ.
Chapter 43 - Spraying, Dipping, and Coating Using Flammable or Combustible Materials	Implement as written.
Chapter 44 - Solvent Extraction	Implement as written.
Chapter 45 - Combustible Fibers	Implement as written.
Chapter 46 through 49 - Reserved for Future Use	

Chapter 50 - Commercial Cooking Equipment	
50.1.2	Clarification: Implement as written with the following clarification. AFI 91-203, Air Force Consolidated Occupational Safety Instruction, Chap 6, Fire Protection & Prevention.
50.1.3 through 50.5.1.8	Implement as written.
50.5.2 through 50.5.2.1	Clarification: Implement as written with the following clarification. UFC 3-601-02, table 2-16, requires annual inspection of fire extinguishing system. NFPA 96 requires systems used to extinguish cooking fires to meet UL 300 requirements. Fire-activated water systems do not meet this requirement. NFPA 96, Table 11.4, may require more inspection frequency. UFC 3-601-02 requires annual replacement of fusible links. Inspection, test and maintenance program is set up to comply with UFC 3-601-2.
50.5.2.2* through 50.6.3.5	Implement as written.
Chapter 51 - Industrial Ovens and Furnaces	Implement as written.
Chapter 52 - Stationary Storage Battery Systems	Implement as written.
Chapter 53 - Mechanical Refrigeration	
53.1 through 53.1.2	Implement as written.
53.1.3	Clarification: Implement as written with the following clarification. Permits issued IAW AFI 91-203 and AFI 91-203, Air Force Consolidated Occupational Safety Instruction, Chapter 27, Air Force Consolidated Occupational Safety Instruction.
53.2 through 53.3.1.2	Implement as written.
53.3.1.3 through 53.3.1.7	Clarification: Implement as written with the following clarification. Review construction requirements IAW 3-600-01, 6-12.1 through 6-12.4.1.3.
53.3.2 through 53.3.2.5	Implement as written.
Chapter 54 - Ozone Gas Generating Equipment- Chapter 55 through 59- Reserved For Future Use	Implement as written.
Chapter 60 - Hazardous Materials	Clarification: Implement as written with the following clarification. The AF hazardous materials program is managed through the CE Environmental Flight. Local policy and programs should not conflict with this guidance. Host nation laws/Codes must be considered.
Chapter 61 - Aerosol Products	Clarification: Implement as written with the following clarification. Most aerosol products fall under the CE Environmental Flight hazmat programs. Host nation laws/codes must be considered.
Chapter 62 - Reserved For Future Use	
Chapter 63 - Compressed Gases and Cryogenic Fluids	Clarification: Implement as written with the following clarification. UFC 3-600-01 provides specific distance criteria as follows: a) A minimum of 30.5 m (100 ft.) from aircraft parking, fueling, or servicing areas. b) A minimum of 30.5 m (100 ft) from any flammable or combustible liquids handling, servicing, processing, or storage area. c) A minimum of 15.3 m (50 ft) from any building of Type III, IV, V construction. d) A minimum of 7.6 m (25 ft) from any building Type I or type II construction. d) Separation

	Distances for LOX Tanks and Carts.
Chapter 64 - Corrosive Solids and Liquids	Implement as written.
Chapter 65 - Explosives, Fireworks, and Model Rocketry	Clarification: Implement as written with the following clarification. Further guidance found in Air Force Instructions, AFMAN 91-201 and AFI 91-203, Air Force Consolidated Occupational Safety Instruction which take precedence.
Chapter 66 - Flammable and Combustible Liquids	Clarification: Implement as written with the following clarification. Further guidance found in UFC 3-600-01 and AFI 91-203, Air Force Consolidated Occupational Safety Instruction which take precedence.
Chapter 67 - Flammable Solids	Clarification: Implement as written with the following clarification. Further guidance found in UFC 3-600-01, paragraph 6-12, Storage of Flammable and Hazardous Materials and Hazardous Waste. Propellants and oxidizers fall under AFMAN 91-201, Explosives Safety Standards.
Chapter 68 - Highly Toxic and Toxic Solids and Liquids	Clarification: Implement as written with the following clarification. There are bio-environmental requirements.
Chapter 69 - Liquefied Petroleum Gases and Liquefied Natural Gases	Clarification: Implement as written with the following clarification. There are bio-environmental requirements.
Chapter 70 - Oxidizer Solids and Liquids	Clarification: Implement as written with the following clarification. Further guidance for propellants and oxidizers fall under AFMAN 91-201, Explosives Safety Standards.
Chapter 71 - Pyrophoric Solids and Liquids	Clarification: Implement as written with the following clarification. Further guidance for propellants and oxidizers fall under AFMAN 91-201, Explosives Safety Standards.
Chapter 72 - Unstable (Reactive) Solids and Liquids	Clarification: Implement as written with the following clarification. Further guidance for propellants and oxidizers fall under AFMAN 91-201, Explosives Safety Standards.
Chapter 73 - Water-Reactive Solids and Liquids	Clarification: Implement as written with the following clarification. Further guidance for propellants and oxidizers fall under AFMAN 91-201, Explosives Safety Standards.
Chapter 74 - Ammonium Nitrate	Clarification: Implement as written with the following clarification. Further guidance for propellants and oxidizers fall under AFMAN 91-201, Explosives Safety Standards.
Chapter 75 - Organic Peroxide Solids and Liquids	Clarification: Implement as written with the following clarification. Further guidance for propellants and oxidizers fall under AFMAN 91-201, Explosives Safety Standards.