

# UNIFIED FACILITIES CRITERIA (UFC)

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## GENERAL BUILDING REQUIREMENTS



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## UNIFIED FACILITIES CRITERIA (UFC)

### GENERAL BUILDING REQUIREMENTS

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U.S. ARMY CORPS OF ENGINEERS

NAVAL FACILITIES ENGINEERING COMMAND (Preparing Activity)

AIR FORCE CIVIL ENGINEER SUPPORT AGENCY

Record of Changes (changes are indicated by \1\ ... /1/)

<b>Change No.</b>	<b>Date</b>	<b>Location</b>
<u>1</u>	7-19-2011	Throughout document: Applicability has been revised to include non-permanent facilities in support of military operations. The terms "Building Official" and "Authority Having Jurisdiction" have been expanded and clarified. DOD use of references for accessibility in the ABA have been clarified. Target publication dates for criteria guidance that are presently in production have been updated. Additional requirements and references for Munitions and Explosives facilities and Sensitive Compartmented Information Facilities have been added. New explanations for levels of construction have been added.
<u>2</u>	11-28-2011	Revision summary sheet; paragraph 1.4: Administration and Enforcement has been changed. Target publication dates for criteria guidance that are presently in production have been updated.

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**This UFC supersedes UFC 1-200-01, dated 27 November 2007, including change 2, implemented 27 January 2010.**

## **FOREWORD**

The Unified Facilities Criteria (UFC) system is prescribed by MIL-STD-3007 and provides planning, design, construction, sustainment, restoration, and modernization criteria, and applies to the Military Departments, the Defense Agencies, and the DoD Field Activities in accordance with [USD\(AT&L\) Memorandum](#) dated 29 May 2002. UFC will be used for all DoD projects and work for other customers where appropriate. All construction outside of the United States is also governed by Status of Forces Agreements (SOFA), Host Nation Funded Construction Agreements (HNFA), and in some instances, Bilateral Infrastructure Agreements (BIA.) Therefore, the acquisition team must ensure compliance with the more stringent of the UFC, the SOFA, the HNFA, and the BIA, as applicable.

UFC are living documents and will be periodically reviewed, updated, and made available to users as part of the Services' responsibility for providing technical criteria for military construction. Headquarters, U.S. Army Corps of Engineers (HQUSACE), Naval Facilities Engineering Command (NAVFAC), and Air Force Center for Engineering and the Environment (AFCEE) are responsible for administration of the UFC system. Defense agencies should contact the preparing service for document interpretation and improvements. Technical content of UFC is the responsibility of the cognizant DoD working group. Recommended changes with supporting rationale should be sent to the respective service proponent office by the following electronic form: [Criteria Change Request \(CCR\)](#). The form is also accessible from the Internet sites listed below.

UFC are effective upon issuance and are distributed only in electronic media from the following source:

- Whole Building Design Guide web site <http://dod.wbdg.org/>.

Hard copies of UFC printed from electronic media should be checked against the current electronic version prior to use to ensure that they are current.



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## **UNIFIED FACILITIES CRITERIA (UFC) REVISION SUMMARY SHEET**

**Subject:** UFC 1-200-01, *GENERAL BUILDING REQUIREMENTS*, dated 16 August 2010 with Change 1 dated 19 July 2011.

**Replaces:** UFC 1-200-01, *GENERAL BUILDING REQUIREMENTS*, dated 16 August 2010.

**Cancels:** UFC 1-200-01, *GENERAL BUILDING REQUIREMENTS*, dated 27 November 2008, with change 1, implemented 6 May 2009 and change 2, implemented 27 January 2010.

**Description of Change:** This update to UFC 1-200-01 represents another step in the joint Services effort to bring uniformity to the military use of existing non-government building codes. Technical representatives of each of the four Services developed this document to require the use of the International Building Code 2009 consistent with the scope of current military requirements and procedures. The International Building Code (IBC) 2000 was used with modifications as the basic building code for the Department of Defense, in the first UFC 1-200-01 published 31 July 2002. Subsequent revisions of UFC 1-200-01 referenced the 2003 and 2006 versions of the International Building Code. This revision of UFC 1-200-01 contains modifications in the following areas:

\1\

- Applicability has been revised to include non-permanent facilities in support of military operations.
- The terms "Building Official" and "Authority Having Jurisdiction" have been expanded and clarified.
- \2\ Paragraph 1.4 Administration and Enforcement has been changed. /2/
- DOD use of references for accessibility in the ABA have been clarified.
- Target publication dates for criteria guidance that are presently in production have been updated.
- Additional requirements and references for Munitions and Explosives facilities and Sensitive Compartmented Information Facilities have been added.
- New explanations for levels of construction have been added.
- \2\ Publication target dates for draft UFCs have been updated./2/

/1/

**Reasons for Change:** The existing guidance was inadequate for the following reasons:

- The existing UFC 1-200-01 required the use of the IBC 2006 which was revised and replaced in 2009 by the International Code Council.
- The existing UFC did not properly reference and identify recently updated and published codes and standards.
- \2\ Identification of the "Authority Having Jurisdiction" was clarified./2/

\1\ /1/

**Impact:** The following direct benefits will result from the update of UFC 1-200-01:

- Creation of a single source reference for modifications to a building code that provides guidance for the design of DoD facilities.
  - Reduces interpretation and ambiguity that could lead to design and construction conflicts.
  - Continues DoD reliance upon NFPA Fire Code and Life Safety Code, and where they are to be specifically used and applied.

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## **CHAPTER 1 - INTRODUCTION**

### **1-1 APPLICABILITY**

This UFC applies to the design and construction of all new and renovated Government-owned facilities for the Department of Defense. It is applicable to all methods of project delivery \1\ and levels of construction, but it /1/ is not applicable to public-private ventures (PPV).

\1\

#### **1-1.1 Facilities in Support of Military Operations**

Military operations are those performed by military or civilian personnel in a designated Joint Operational Area including but not limited to contingency operations, humanitarian or peacekeeping operations and military exercises. For non-permanent facilities in support of military operations, comply with requirements contained in this UFC associated with:

- Fire protection, including the following:
  - Active fire protection systems (fire suppression, fire alarm systems)
  - Passive fire protection (fire rated walls, floors)
  - Limits on building heights and areas, limits on combustible construction types
  - Egress requirements
- Structural integrity
- Electrical systems
- Plumbing and mechanical systems
- Water treatment, storage and distribution
- Wastewater collection and treatment
- Telecommunications networks

#### **1-1.2 Levels of Construction**

**Permanent Construction.** Buildings and facilities designed and constructed to serve a life expectancy of more than 25 years.

**Semi-permanent Construction.** Buildings and facilities designed and constructed to serve a life expectancy of more than five years but less than 25 years. This construction level is typically only used to support military operations. Expediency of construction and material availability may be a factor. Facility intended for a more enduring presence with operational

characteristics and functional performance similar to permanent construction. Maintainability of finishes and systems shall be commensurate with the facility life expectancy and available maintenance capabilities. A moderate level of energy and water efficiency shall be considered.

**Temporary Construction.** Buildings and facilities designed and constructed to serve a life expectancy of five years or less using low-cost construction. Temporary construction typically cannot be economically converted to a higher construction level. Temporary facilities have limited flexibility for conversion and re-use.

/1/

## 1-2 **BUILDING CODE**

Except as indicated below, use the 2009 International Building Code (IBC-2009) as modified by Chapter 2 and Chapter 3 of this UFC as the building code for the Department of Defense.

### 1-2.1 **Substitutions**

All references in the International Building Code to the International Fire Code shall be considered to be references to NFPA 1.

All references in the International Building Code to the International Fuel Gas Code shall be considered to be references to NFPA 54 and NFPA 58.

## 1-3 **CORE UFC'S**

The International Building Code is modified in Chapters 2 and 3 of this UFC through reference to "core" UFCs (Appendix A, References) and other military criteria. Core UFCs provide the unique military building criteria that parallel the building code and apply to building systems found in most DoD facilities. In the case of conflicts between the International Building Code and the military criteria, use the military requirements.

## 1-4 **ADMINISTRATION AND ENFORCEMENT**

\2\ The terms "Building Official" and "Authority Having Jurisdiction" (AHJ) as used in the codes and standards referenced in this UFC mean the component office of responsibility, i.e., U.S. Army, HQ USACE/CECW-CE; U.S. Navy, NAVFACENGCOM HQ Code CHE; U.S. Marine Corps, HQMC Code LFF-1; and U.S. Air Force, HQ AFCESA/CEO. The enforcement of the codes and standards as they pertain to facility projects can be delegated to the local Component Office's Chief Engineer's Technical Representative at the discretion of the component's aforementioned office. /2/

**CHAPTER 2 - MODIFICATIONS TO THE INTERNATIONAL BUILDING CODE (IBC)**

**2-1            CHAPTER 1 – ADMINISTRATION**

Use Sections 101, 102, 110, and 112 of IBC Chapter 1.

**2-2            CHAPTER 2 – DEFINITIONS**

Use IBC Chapter 2. Definitions apply to terms used in the model code and are not intended to replace definitions and terms in military documents.

**2-3            CHAPTER 3 – USE AND OCCUPANCY CLASSIFICATION**

Use IBC Chapter 3 and UFC 3-600-01. If any conflict occurs between IBC Chapter 3 and UFC 3-600-01, the requirements of UFC 3-600-01 take precedence.

**2-4            CHAPTER 4 – SPECIAL DETAILED REQUIREMENTS BASED ON USE AND OCCUPANCY**

Use UFC 3-600-01 in lieu of IBC Chapter 4.

**2-5            CHAPTER 5 – GENERAL BUILDING HEIGHTS AND AREAS**

Use IBC Chapter 5. The building area for funding and planning purposes may be calculated differently than the method defined in IBC Chapter 5.

**2-6            CHAPTER 6 – TYPES OF CONSTRUCTION**

Use IBC Chapter 6 and UFC 3-600-01. If any conflict occurs between IBC Chapter 6 and UFC 3-600-01, the requirements of UFC 3-600-01 take precedence.

**2-7            CHAPTER 7 – FIRE-RESISTANCE-RATED CONSTRUCTION**

Use IBC Chapter 7 and UFC 3-600-01. If any conflict occurs between IBC Chapter 7 and UFC 3-600-01, the requirements of UFC 3-600-01 take precedence.

**2-8            CHAPTER 8 – INTERIOR FINISHES**

Use UFC 3-600-01 in lieu of IBC Chapter 8.

**2-9            CHAPTER 9 – FIRE PROTECTION SYSTEMS**

Use UFC 3-600-01 in lieu of IBC Chapter 9.

**2-10          CHAPTER 10 – MEANS OF EGRESS**

Use UFC 3-600-01 in lieu of IBC Chapter 10.

**2-11          CHAPTER 11 – ACCESSIBILITY**

Use the *ABA Accessibility Standard for Department of Defense Facilities* as adopted by the Deputy Secretary of Defense memorandum dated October 31, 2008, in lieu of IBC Chapter 11. \1\ Where the ABA references the IBC 2000-3 and supplements, the latest version of the IBC is acceptable when it meets or exceeds the ABA requirements./1/

**2-12            CHAPTER 12 – INTERIOR ENVIRONMENT**

Use IBC Chapter 12, except as modified below:

2-12.1           Delete paragraph 1204.1, including the exception, and replace with the following:

“1204.1 Use the applicable Unified Facilities Criteria and individual military service standards for temperature control criteria.”

2-12.2           For Navy and Marine Corps bachelor housing facilities, delete paragraphs 1207.2, 1207.3, 1208.3 and 1208.4, and use UFC 4-721-10 for air-borne and structure-borne sound transmission criteria, for minimum room sizes, and for dwelling unit criteria.

**2-13            CHAPTER 13 – ENERGY EFFICIENCY**

Use UFC 3-400-01 in lieu of IBC Chapter 13.

**2-14            CHAPTER 14 – EXTERIOR WALLS**

Use IBC Chapter 14.

**2-15            CHAPTER 15 – ROOF ASSEMBLIES AND ROOFTOP STRUCTURES**

Use IBC Chapter 15.

**2-16            CHAPTER 16 – STRUCTURAL DESIGN**

Use IBC Chapter 16 as modified by UFC 3-301-01. Use IBC Chapter 16 and UFC 3-310-04 for seismic design.

**2-17            CHAPTER 17 – STRUCTURAL TESTS AND INSPECTIONS**

Use IBC Chapter 17 as modified by UFC 3-301-01.

2-17.1           In Paragraph 1704.1 General, add the following after the first paragraph:

“When the construction contractor is required by the Government to provide special inspections as part of his work, the contractor shall retain third-party quality assurance agencies to conduct the special inspections required by the IBC. The inspecting agency shall provide reports of the special inspections directly to the government.”

**2-18            CHAPTER 18 – SOILS AND FOUNDATIONS**

Use IBC Chapter 18 as modified by UFC 3-301-01. For Navy and Marine Corps facilities, also use UFC 3-220-01N.

**2-19            CHAPTER 19 – CONCRETE**

Use IBC Chapter 19 as modified by UFC 3-301-01.

**2-20            CHAPTER 20 – ALUMINUM**

Use IBC Chapter 20.

**2-21            CHAPTER 21 – MASONRY**

Use IBC Chapter 21 as modified by UFC 3-301-01.

**2-22            CHAPTER 22 – STEEL**

Use IBC Chapter 22 as modified by UFC 3-301-01.

**2-23            CHAPTER 23 – WOOD**

Use IBC Chapter 23.

**2-24            CHAPTER 24 – GLASS AND GLAZING**

Use IBC Chapter 24.

**2-25            CHAPTER 25 – GYPSUM BOARD AND PLASTER**

Use IBC Chapter 25.

**2-26            CHAPTER 26 – PLASTIC**

Use IBC Chapter 26.

**2-27            CHAPTER 27 – ELECTRICAL**

Use IBC Chapter 27 and the following:

1. Use UFC 3-501-01 for general electrical requirement criteria.
2. Use UFC 3-520-01 for interior electrical systems criteria.
3. Use UFC 3-530-01 for interior and exterior lighting and controls criteria.
4. Use UFC 3-550-01 for exterior power distribution systems criteria.
5. Use UFC 3-560-01 for electrical safety and electrical O&M criteria.
6. Use UFC 3-580-01 for interior telecommunications criteria.

7. Use UFC 4-021-01 for mass notification systems criteria.

**2-28            CHAPTER 28 – MECHANICAL SYSTEMS**

2-28.1            Use IBC Chapter 28 and UFC 3-400-10N for Navy and Marine Corps facilities.

2-28.2            Use UFC 3-410-01FA in lieu of IBC Chapter 28 for Army and Air Force facilities.

2-28.3            Use UFC 3-400-02 to access climatological data for use in designing mechanical systems.

**2-29            CHAPTER 29 – PLUMBING SYSTEMS**

Use IBC Chapter 29 and UFC 3-420-01.

**2-30            CHAPTER 30 – ELEVATOR AND CONVEYING SYSTEMS**

Use IBC Chapter 30, UFC 3-600-01, and ITG 01-01.

**2-31            CHAPTER 31 – SPECIAL CONSTRUCTION.**

Use IBC Chapter 31.

**2-32            CHAPTER 32 – ENCROACHMENT INTO THE PUBLIC RIGHT-OF-WAY**

Use IBC Chapter 32.

**2-33            CHAPTER 33 – SAFEGUARDS DURING CONSTRUCTION**

Use IBC Chapter 33 and UFC 3-600-01. If any conflict occurs between IBC Chapter 33 and UFC 3-600-01, the requirements of UFC 3-600-01 take precedence.

**2-34            CHAPTER 34 – EXISTING STRUCTURES**

Use IBC Chapter 34 and the International Existing Building Code, except as modified below.

2-34.1            Use Section 3410 with UFC 3-600-01. If any conflict occurs between Section 3410 or the International Existing Building Code and UFC 3-600-01, the requirements of UFC 3-600-01 take precedence.

2-34.2            Use IBC Chapter 34 with UFC 3-310-04 for seismic evaluation and seismic rehabilitation of existing buildings. Existing buildings inside the United States, its territories and possessions must comply with ICSSC RP6 / NISTIR 6762. All references in ICSSC RP6 / NISTIR 6762 to FEMA 310 and FEMA 356 shall be considered to be references to ASCE/SEI 31-03 and ASCE/SEI 41-06 respectively.

2-35            **CHAPTER 35 – REFERENCED STANDARDS**

Use IBC Chapter 35 and Appendix A of this UFC.

2-36            **APPENDICES**

Delete Appendix A through Appendix K of the IBC.

## **CHAPTER 3 - OTHER CRITERIA**

In addition to the International Building Code as modified in Chapter 2 of this UFC, comply with the following criteria:

### **3-1 HIGHER AUTHORITY MANDATES**

All construction must be in compliance with all Public Laws (P.L.), Executive Orders (E.O.), Code of Federal Regulations (CFR), Department of Defense Instructions (DODI), and Department of Defense Directives (DODD) or other higher authority documents as applicable, as listed in MIL-STD-3007F, Appendix B

### **3-2 UFC'S**

Comply with UFC's (Latest Version)

### **3-3 CORE UFC'S**

See Appendix A - References.

#### **3-3.1 Antiterrorism**

Use UFC 4-010-01 and Geographic Combatant Commander Antiterrorism construction standards for antiterrorism requirements.

#### **3-3.2 Sustainability**

Use UFC 4-030-01 for sustainability requirements.

#### **3-3.3 Architectural**

- a. Use UFC 3-101-01 for architectural design criteria \2\2/.
- b. Use UFC 3-110-03 for roofing criteria.
- c. Use UFC 3-120-10 for interior design criteria.

#### **3-3.4 Civil Engineering**

- a. Use UFC 3-210-10 for low-impact development criteria.
- b. Use UFC 3-201-01 for general civil engineering, and site planning and design criteria, target publication date, \1\March 2012/1/. Use UFC 3-210-01A and UFC 3-200-10N as interim criteria until publication of UFC 3-201-01.
- c. Use UFC 3-230-01 for water supply, target publication date, \2\March 2012 /2/. Use UFC 3-230-03A and UFC 3-200-10N as interim criteria until publication of UFC 3-230-01.

- d. Use UFC 3-240-01 for wastewater collection, target publication date \2\ March 2012 /2/. Use UFC 3-240-04A and \1\UFC 3-200-19N\1\ as interim criteria until publication of UFC 3-240-01.

### 3-4 **OTHER MILITARY CRITERIA**

Military criteria other than those listed in this UFC may be applicable to specific types of structures, building systems, or building occupancies. Such structures, systems, or buildings must meet the additional requirements of the applicable military criteria.

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#### 3-4.1 **Explosives Safety**

This document does not contain requirements for explosives safety. All facilities that involve DoD Ammunition and Explosives (AE) storage, handling, maintenance, manufacture or disposal, as well as any facilities within the explosives safety quantity distance (ESQD) arcs of AE facilities, must comply with the explosives safety requirements found in DoD Manual 6055.09-M, as well as implementing Service criteria found in DA PAM 385-64 (Army), NAVSEA OP 5 (Navy and Marine Corps), and AFMAN 91-201 (Air Force). DoD facilities exposed to potential explosion effects from AE belonging to other nations are also required to meet DoD and Service explosives safety criteria.

It is essential that the planning and design of new facilities and occupation and renovation of existing AE-related facilities or any facilities within ESQD arcs be accomplished in close coordination with knowledgeable explosives safety professionals in theater or with the Services' explosives safety centers. This coordination should occur as early as possible in the planning/design process to avoid issues/problems and ensure compliance.

All facility construction or use within ESQD arcs requires review for compliance with explosives safety criteria and must have either an approved explosives safety site plan or an approved explosives safety deviation. Refer to the DoD and Service documents mentioned above for further guidance in this area.

#### 3-4.2 **Physical Security**

Physical security is that part of security concerned with physical measures designed to safeguard personnel; to prevent unauthorized access to equipment, installations, material, and documents; and to safeguard them against espionage, sabotage, damage, and theft.

Many buildings require some level of physical security. When required, integrate physical measures into the site, building, room(s), or area(s) as applicable. The Intelligence Community (IC) and DoD document the requirements for physical security related to specific assets in IC and DoD publications, directives, and instructions. Services have related documents that implement the IC and DoD policy for the

Services. Below are the main DoD and IC documents that contain the physical security requirements for the protection of specific DoD assets. This does not include the policy documents associated with the protection of nuclear and chemical assets.

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**Table 3-1 Policy Related to Physical Security**

<b>ASSET</b>	<b>POLICY</b>
Classified Information	DoD 5200.1-R, <i>DoD Information Security Program</i> <a href="http://www.dtic.mil/whs/directives/corres/pub1.html">http://www.dtic.mil/whs/directives/corres/pub1.html</a>
Sensitive Compartmented Information (SCI)	UFC 4-010-05, <i>Sensitive Compartmented information Facilities Planning, Design, and Construction</i> (currently in Draft) Intelligence Community Directive (ICD) 705, <i>Sensitive Compartment Information Facilities</i> (Effective: 26 May 2010). <a href="http://www.dni.gov/electronic_reading_room/ICD_705_SCIFs.pdf">http://www.dni.gov/electronic_reading_room/ICD_705_SCIFs.pdf</a> Intelligence Community Standard Number 705-1 (ICS 705-1), <i>Physical and Technical Security Standards for Sensitive Compartmented Information Facilities</i> (Effective: 17 September 2010) <a href="http://www.wbdg.org/pdfs/dod_at/ics_705_1.pdf">http://www.wbdg.org/pdfs/dod_at/ics_705_1.pdf</a> Intelligence Community Standard Number 705-2 (ICS 705-2), <i>Standards for the Accreditation and Reciprocal Use of Sensitive Compartmented Information</i> (Effective: 17 September 2010) <a href="http://www.wbdg.org/pdfs/dod_at/ics_705_2.pdf">http://www.wbdg.org/pdfs/dod_at/ics_705_2.pdf</a> IC Tech Spec-for ICD/ICS 705, <i>Technical Specifications for Construction and Management of Sensitive Compartmented Information Facilities</i> (Effective: 5 May 2011) <a href="http://www.wbdg.org/pdfs/dod_at/ic_techspeg_705.pdf">http://www.wbdg.org/pdfs/dod_at/ic_techspeg_705.pdf</a>
Special Access Program (SAP) Information	JAFAN 6/9 Manual, Physical Security Standards for Special Access Program Facilities <a href="http://www.ncms-isp.org/documents/JANAF_6-0.pdf">http://www.ncms-isp.org/documents/JANAF_6-0.pdf</a>
Arms, Ammunition and Explosives	DoD Manual 5100.76-M, <i>Physical Security of Sensitive Conventional Arms, Ammunition and Explosives</i> <a href="http://www.dtic.mil/whs/directives/corres/pub1.html">http://www.dtic.mil/whs/directives/corres/pub1.html</a>
Weapon Systems and Platforms	DoD 5200.08-R, <i>Physical Security Program</i> <a href="http://www.dtic.mil/whs/directives/corres/pub1.html">http://www.dtic.mil/whs/directives/corres/pub1.html</a>
Bulk Petroleum Products	
Communications Systems	
Controlled Inventory Items	

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## APPENDIX A-REFERENCES

### GOVERNMENT PUBLICATIONS

*ABA Accessibility Standard for Department of Defense Facilities*,  
<http://www.access-board.gov/ada-aba/aba-standards-dod.cfm>

\1\

AFMAN 91-201, *Explosives Safety Manual*, 12 January 2011,  
<http://www.epublishing.af.mil>

DA PAM 385-64, *Ammunition and Explosives Standards*,  
<https://acc.dau.mil/CommunityBrowser.aspx?id=237824>

DoD Manual 5100.76-M, *Physical Security of Sensitive Conventional Arms, Ammunition and Explosives* <http://www.dtic.mil/whs/directives/corres/pub1.html>

DoD Manual 5200.1, *DoD Information Security Program*,  
<http://www.dtic.mil/whs/directives/corres/pub1.html>

DoD Manual 5200.08R, *Physical Security Program*,  
<http://www.dtic.mil/whs/directives/corres/pub1.html>

DoD Manual 6055.09-M, *DoD Ammunition and Explosives Safety Standards*,  
<http://www.dtic.mil/whs/directives/corres/html/605509m.html>

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FEMA-310, *Handbook for the Seismic Evaluation of Buildings*,  
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