


**MARYLAND DEPARTMENT OF TRANSPORTATION  
MARYLAND AVIATION ADMINISTRATION**

**MEMORANDUM**

**TO:** Distribution

**FROM:** Ali Logmanni, Manager   
Division of Engineering  
Office of Design and Construction

**DATE:** May 9, 2014

**SUBJECT:** Design Standard (DST) 2014-02, Codes and Standards  
Section 7.1, Code Requirements  
Appendix G, Part 1- Codes and Standards

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Effective immediately, the following modifications shall be made to the MAA Design Standards Manual, dated January 2014:

1. Remove Section 7.1, Code Requirements, in its entirety and replace with the attached Section 7.1, Code Requirements. Section 7.1.1 shall remain unchanged
2. Remove Appendix G, Codes and Standards, in its entirety and replace with the attached Appendix G, Part 1- Codes and Standards. Appendix G, State of Maryland Fire Prevention Code, dated January 1, 2013, shall remain unchanged.

Consultants listed herein are required to distribute this design standard to their respective subconsultants.

If you believe the attached drawings conflict with any other codes or regulations, or if you should have any questions regarding this matter, please contact the Manager, Division of Engineering at 410-859-7768.

**Attachments**

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**MARYLAND DEPARTMENT OF TRANSPORTATION  
MARYLAND AVIATION ADMINISTRATION**

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Supplement to the MAA Design Standards Manual 2014

Design Standard (DST) 2014-02

***Section 7.1, CODE REQUIREMENTS***

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**7.1 CODE REQUIREMENTS**

The Designer shall design the project to comply with the MAA Design Standards, codes and standards as listed in Appendix G, and the requirements of this chapter. The Designer scope of work may require compliance with other codes and standards not identified in the MAA Design Standards. As such, the Designer shall identify the additional codes and standards specific to a particular project in accordance with the requirements of Chapter 4 and Chapter 7, Section 7.1.1.

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Supplement to the MAA Design Standards Manual 2014

Design Standard (DST) 2014-02

*Appendix G, Part 1, Codes & Standards*

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**APPENDIX G, PART 1 - CODES AND STANDARDS**

**ENFORCEMENT OF FIRE RELATED CODES AND STANDARDS BY THE MAA OFFICE  
OF THE FIRE MARSHAL (OFM) AS THE AUTHORITY HAVING JURISDICTION (AHJ)**

The OFM is the AHJ for the enforcement of the Maryland State Fire Prevention Code, the fire safety aspects of the adopted Building Codes, and all other adopted fire related Codes and Standards for BWI Marshall and MTN Airports.

The following Codes and Standards are applicable to all project designs, specifications, construction, and occupancy. The OFM enforces them during plan review and construction inspections as authorized representatives of the Maryland State Fire Marshal. Failure to comply with the fire and life safety related requirements of the Codes and Standards listed herein may result in the withholding of project design approvals, inspection approvals, or occupancy approvals by the OFM. Additionally, violations of these codes are subject to the penalties set forth in the Public Safety Article of the Annotated Code of Maryland.

**Whenever a newer Edition of the Codes listed herein becomes adopted under COMAR Regulations or the State of Maryland Fire Prevention Code, they supersede the Editions listed herein.** If a newer Edition of the NFPA Codes or Standards becomes available, the OFM may require compliance prior to adoption of the newer edition by COMAR. Contact the OFM in advance concerning the use of newer Editions than those listed below.

It is recommended that the following resources be used to determine the latest adopted Editions of these Codes and Standards.

FOR STATE OF MARYLAND FIRE CODES:

<http://www.firemarshal.state.md.us>

FOR FIRE RELATED ASPECT OF BUILDING CODES:

<http://mdcodes.umbc.edu>

**ADOPTED CODES AND STANDARDS**

<b>Code</b>	<b>Edition</b>
Maryland Aviation Administration Design Standards (DST)	Latest Edition
State of Maryland Fire Prevention Code	See Appendix G
International Building Code (IBC)	2012

International Plumbing Code (IBC)	2012
International Mechanical Code (IMC)	2012
International Existing Building Code (IEBC)	2012

Applicable COMAR (Code of Maryland) Regulations:

COMAR Reference	Title	Date
05.02.01	Maryland Model Performance Code	01 January 2013
05.02.02	Maryland Accessibility Code	2012
05.02.07	Maryland Building Performance Standards (MBPS)	01 January 2010
09.20.01	Maryland State Plumbing Regulations	13 May 2013
29.06.01.07	State Fire Prevention Code	01 January 2013

The above applicable COMAR Regulations incorporate by reference, and contain amendments to the following Model Codes:

Code	Edition
International Building Code	2012
International Residential Code	2012
International Existing Building Code	2012
International Energy Conservation Code (IECC)	2012
International Plumbing Code (Maryland Model Performance Code for industrialized buildings).	2012
International Mechanical Code	2012
NFPA 1, Uniform Fire Code	2012
NFPA 70, National Electrical Code	2011
NFPA 101, Life Safety Code	2009 with modifications
Americans with Disabilities Act, Accessibility Guidelines	15 September 2010 and amended 11 March 2011
National Standard Plumbing Code Illustrated	2012 and 2012 Supplement (Maryland Building Performance Standards)

#### NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) CODES AND STANDARDS

In addition to the above, the following NFPA Codes and Standards are also applicable. While those listed comprise the most widely used regulations concerning new construction, refer to Chapter 2 of NFPA 1, Fire Prevention Code, for a complete list of other reference Standards that may also apply to particular projects or unusual hazards.

NFPA Code or Standard	Title	Edition	Notes (see below)
1	Uniform Fire Code	2012	1

<b>NFPA Code or Standard</b>	<b>Title</b>	<b>Edition</b>	<b>Notes (see below)</b>
10	Portable Fire Extinguishers	2010	2
11	Low, Medium, and High Expansion Foam	2010	2
12	Carbon Dioxide Extinguishing Systems	2011	2
12A	Halon 1301 Fire Extinguishing Systems	2009	2
13	Installation of Sprinkler Systems	2010	2
14	Standpipe and Hose Systems	2010	2
15	Water Spray Fixed Systems for Fire Protection	2012	2
16	Foam-Water Sprinkler and Foam-Water Spray Systems	2011	2
17	Dry Chemical Extinguishing Systems	2009	2
17A	Wet Chemical Extinguishing Systems	2009	2
20	Installation of Stationary Fire Pumps	2010	2
22	Water Tanks for Private Fire Protection	2008	2
24	Private Fire Service Mains and their Appurtenances	2010	2
25	Inspection, Testing, and Maintenance of Water- Based Fire Protection Systems	2011	2
30	Flammable and Combustible Liquids Code	2012	2
30A	Code for Motor Fuel Dispensing Facilities and Repair Garages	2012	2
31	Standard for the Installation of Oil-Burning Equipment	2011	2
33	Spray Application Using Flammable or Combustible Materials	2011	2
37	Installation and Use of Stationary Combustion Engines and Gas Turbines	2010	2
51B	Fire Prevention During Welding, Cutting, and Other Hot Work	2009	2
52	Vehicular Fuel Systems Code	2010	2
54	National Fuel Gas Code	2012	2
55	Compressed Gases	2010	2
58	Liquefied Petroleum Gas Code	2011	2
70	National Electrical Code	2011	2
72	National Fire Alarm Code	2010	2
75	Standard for the Protection of Information Technology Equipment	2009	3
76	Standard for the Fire Protection of Telecommunications Facilities	2009	3
80	Fire Doors and Fire Windows	2010	2
80A	Recommended Practice for Protection of Buildings from Exterior Fire Exposures	2007	3
88A	Parking Structures	2011	2
90A	Installation of Air-Conditioning and Ventilating	2011	2

NFPA Code or Standard	Title	Edition	Notes (see below)
	Systems		
90B	Installation of Warm Air Heating and Air-Conditioning Systems	2012	2
92A	Standard for Smoke-Control Systems Utilizing Barriers and Pressure Differences	2009	3
92B	Standard for Smoke Management Systems in Malls, Atria, and Large Spaces	2009	3
96	Ventilation Control and Fire Protection of Commercial Cooking Operations	2011	2
101	Life Safety Code	2012	1
105	Installation of Smoke Door Assemblies	2010	3
110	Emergency and Standby Power Systems	2010	2
170	Fire Safety Symbols	2009	3
204	Smoke and Heat Venting	2012	2
220	Types of Building Construction	2012	2
221	Fire Walls and Fire Barrier Walls	2012	2
241	Safeguarding Construction, Alteration, and Demolition Operations	2009	2
407	Aircraft Fuel Servicing	2012	2
408	Standard for Aircraft Hand Portable Fire Extinguishers	2010	3
409	Aircraft Hangars	2011	2
410	Aircraft Maintenance	2010	2
415	Airport Terminal Buildings, Fueling Ramp Drainage, and Loading Walkways	2013	2
418	Heliports	2011	2
502	Road Tunnels, Bridges, and Other Limited Access Highways	2011	3
505	Powered Industrial Trucks	2011	2
703	Standard for Fire Retardant-Treated Wood and Fire-Retardant Coatings for Building Materials	2012	2
704	Standard System for the Identification of the Hazards of Materials for Emergency Response	2012	2
780	Standard for the Installation of Lightning Protection Systems	2011	3
2001	Clean Agent Fire Extinguishing Systems	2012	2
5000	Building Construction and Safety Code	2012	4

#### NOTES TO NFPA STANDARDS AND CODES TABLE

1. Direct Adoption By State Fire Prevention Code – the Maryland State Fire Code directly adopts this Code or Standard (*Reference: TITLE 29, DEPARTMENT OF STATE POLICE, SUBTITLE 06, FIRE PREVENTION COMMISSION, CHAPTER 01, FIRE PREVENTION CODE, Amended*

*Effective August 1, 2004*). Check the State Fire Prevention Code for possible amendments to the adopted Code or Standard.

2. **Mandatory Requirements by Referenced Publication** - Although not directly adopted by the State Fire Prevention Code of Maryland, this Code or Standard is referenced by other adopted Standards or Codes and are therefore applicable. See NFPA 1, Chapter 2, for a complete listing of Referenced Publications, which are mandatory requirements.
3. **Recommended Practice** - Although not directly adopted by the State Fire Prevention Code, and not adopted by reference, this may be considered recommended practice by the OFM for certain projects. Check with the OFM for guidance regarding application of this Standard to particular projects.
4. NFPA 5000 is listed as a "Referenced Publication" by NFPA 1. However, the Maryland Fire Prevention Code specifically deleted it from adoption and substituted the IBC.

#### OTHER REGULATORY AGENCY REQUIREMENTS

Additionally, projects must comply with the requirements of several regulatory agencies:

<b>Agency</b>	<b>Regulation</b>
Federal Department of Transportation	
Federal Aviation Administration (FAA)	Subchapters
Federal Aviation Regulations	Part 77: Objects Affecting Navigable Airspace
	Part 139: Certification of Airports
	Part 150: Airports
	Part 151: Federal Aid to Airports
	Part 152: Airport Aid Program
Transportation Security Administration (TSA)	49 CFR Part 1542
Maryland State Highway Administration (SHA)	
Maryland Department of Transportation (MDOT)	
Maryland Department of the Environment (MDE)	
Occupational Safety and Health Administration (OSHA) Codes	
Environmental Protection Agency (EPA) Regulations	
Codes of Anne Arundel and Baltimore Counties	
Federal Department of Agriculture	
American Association of State Highway and Transportation Officials (AASHTO) - Landside (non-airfield) projects shall follow AASHTO publication "A Policy of Geometric Design of Highways and Streets 1990" for all project design criteria. Design exceptions will only be required if the design falls below AASHTO minimum standards. In such cases, the designer shall obtain SHA approval concurrently with MAA approval.	



The Designer shall incorporate appropriate references to nationally accepted standards for the design, fabrication and installation of particular equipment. Also, the Designer shall include in the design appropriate reference to the published MAA Directives. These include but are not limited to such topics as: security, vehicle operations, AOA licensing, badging, radio communications, display of signs, and key control.