



Engineering Criteria

Not including UFC/UFGS

November 30, 2011

**STATUS OF
NAVFAC ENGINEERING CRITERIA
(Not including UFC/UFGS)**



November 30, 2011

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SECTION 1 MILITARY HANDBOOKS (MIL-HDBK)

Introduction

NAVFAC started publishing its design and construction criteria as Military Handbooks in the late 1980s. Military Handbooks, along with Military Standards and Military Details, are part of the Defense Standardization Program (DSP.) For more information about DSP, visit the website: <http://www.dsp.dla.mil>.

Military Handbooks for design were published in the 1000 series: Military Handbooks for maintenance were published in the 1100 series.

Currently, the majority of Military Handbooks have been replaced by Unified Facilities Criteria (UFC) published by a Tri-service committee with representatives from the three military services and the Department of Defense. For more information about UFC, and the Unified Facilities Criteria program, see the web page at WBDG: <http://dod.wbdg.org>.

Table 1
Active Military Handbooks

Document Number	Title	Hyperlink
MIL-HDBK-1004/6	Lightning Protection	MIL-HDBK-1004/6
MIL-HDBK-1012/1	Electronic Facilities Engineering	MIL-HDBK-1012/1
MIL-HDBK-1012/4	Telecommunications - Outside Cable Plant - Planning, Designing, and Estimating	
MIL-HDBK-1013/1A	Design Guidelines for Physical Security of Facilities	MIL-HDBK-1013/1A
MIL-HDBK-1013/8	Combination Locks	MIL-HDBK-1013/8
MIL-HDBK-1013/10	Design Guidelines for Security Fencing, Gates, Barriers, and Guard Facilities	MIL-HDBK-1013/10
MIL-HDBK-1013/12	Evaluation and Selection Analysis of Security Glazing for Protection Against Ballistic, Bomb and Forced Entry Attack	MIL-HDBK-1013/12
MIL-HDBK-1024/3	Oxyacetylene and Nitrogen and Oxygen Breathing Facilities	MIL-HDBK-1024/3
MIL-HDBK-1025/4	Seawalls, Bulkheads and Quaywalls	MIL-HDBK-1025/4
MIL-HDBK-1027/3B	Range Facilities and Miscellaneous Training Facilities other than Buildings	MIL-HDBK-1027/3B
MIL-HDBK-1195	Radio Frequency Shielded Enclosures	MIL-HDBK-1195
MIL-HDBK-1197	Aero-Acoustics Test Program	MIL-HDBK-1197

Table 2
Superseded Military Handbooks

Document Number	Title	Superseded by	Current Document and Hyperlink
MIL-HDBK-1000/1A	Engineer & Design Criteria and Documentation for Naval Facilities	NECDR	This Document
MIL-HDBK-1001/1	Basic Architectural Requirements and Design Considerations	UFC	UFC 1-200-01
MIL-HDBK-1001/2	Materials and Buildings Components	None	UFC 1-200-01
MIL-HDBK-1001/5A	Roofing and Waterproofing	UFC 3-110-03	UFC 3-110-03
MIL-HDBK-1002	Timber Structures	UFC 1-200-01	UFC 1-200-01
MIL-HDBK-1002/1	Structural Engineering-General Requirements	UFC 1-200-01	UFC 1-200-01
MIL-HDBK-1002/2	Structural Engineering - Loads	MIL-HDBK-1002/2A	UFC 3-310-01
MIL-HDBK-1002/2A	Structural Engineering - Loads	UFC 3-310-01	UFC 3-310-01
MIL-HDBK-1002/3	Structural Engineering - Steel Structures	UFC 1-200-01	UFC 1-200-01
MIL-HDBK-1002/5	Timber Structures	UFC 1-200-01	UFC 1-200-01
MIL-HDBK-1002/6	Aluminum Structures, Composite Structures, Structural Plastics	UFC 1-200-01	UFC 1-200-01
MIL-HDBK-1003/1	Plumbing	UFC 3-420-01	UFC 3-420-01
MIL-HDBK-1003/3	Heating, Ventilating, Air Conditioning and Dehumidifying Systems	UFC 3-410-02N	UFC 3-410-02N
MIL-HDBK-1003/6	Central Heating Plants	UFC 3-430-08N	UFC 3-430-08N
MIL-HDBK-1003/7	Steam Power Plants - Fossil Fueled	UFC 3-540-02N	UFC 3-540-02N
MIL-HDBK-1003/8A	Exterior Distribution of Steam, High Temperature Hot Water, Chilled Water, Natural Gas and Compressed Air	UFC 3-430-09	UFC 3-430-09
MIL-HDBK-1003/11	Diesel-Electric Generating Plants	UFC 3-540-04N	UFC 3-540-04N
MIL-HDBK-1003/12	Boiler Controls	UFC 3-430-11	UFC 3-430-11
MIL-HDBK-1003/13A	Solar Heating of Buildings and Domestic Hot Water	UFC 3-440-04N	UFC 3-440-04N
MIL-HDBK-1003/17C	Industrial Ventilation Systems	UFC 3-410-04N	UFC 3-410-04N
MIL-HDBK-1003/19	Design Procedures for Passive Solar Buildings	UFC 3-440-03N	UFC 3-440-03N
MIL-HDBK-1004/1	Electrical Engineering - Preliminary Design Considerations	UFC 3-501-03N	UFC 3-501-03N
MIL-HDBK-1004/2A	Power Distribution Systems	UFC 3-550-03N	UFC 3-550-03N

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Document Number	Title	Superseded by	Current Document and Hyperlink
MIL-HDBK-1004/5	400-HZ Medium-Voltage Conversion/Distribution & Low-Voltage	UFC 3-555-01N	UFC 3-555-01N
MIL-HDBK-1004/7	Wire Communications and Signal Systems	Current guidance is covered by various other UFCs	
MIL-HDBK-1004/10	Cathodic Protection	UFC 3-570-02N	UFC 3-570-02N
MIL-HDBK-1005/6	Civil Engineering -Trackage	UFC 4-860-02N	UFC 4-860-02N
MIL-HDBK-1005/7A	Water Supply Systems	UFC 3-230-19N	UFC 3-230-19N
MIL-HDBK-1005/8A	Domestic Wastewater Control	UFC 3-240-02N	UFC 3-240-02N
MIL-HDBK-1005/9	Industrial and Oily Wastewater Control	UFC 4-832-01N	UFC 4-832-01N
MIL-HDBK-1005/13	Hazardous Waste Storage Facilities	UFC 4-451-10N	UFC 4-451-10N
MIL-HDBK-1005/16	Wastewater Treatment System	UFC 3-240-02N	UFC 3-240-02N
MIL-HDBK-1006/1A	Policy and Procedures for Project Drawings and Specification Preparation	UFC 1-300-09N	UFC 1-300-09N
MIL-HDBK-1006/2A	Policy and Procedures for Guide Specification Preparation	UFC 1-300-02	UFC 1-300-02
MIL-HDBK-1006/3	Policy and Procedures for Engineering and Design Criteria Manual	UFC 1-300-01	UFC 1-300-01
MIL-HDBK-1006/4	Policy and Procedures for Definitive and Standard Design and Standard Specification Preparation	UFC 1-300-09N	UFC 1-300-09N
MIL-HDBK-1006/5	Guidance and Procedures for the Newport Design Build Process		For current Design Build Requirements, go to the NAVFAC Design Build Master at http://www.wbdg.org/ndbm
MIL-HDBK-1007/3	Soil Dynamics and Special Design Aspects	UFC 3-220-10N	UFC 3-220-10N
MIL-HDBK-1008C	Fire Protection for Facilities Engineering & Design & Construction	UFC 3-600-01	UFC 3-600-01
MIL-HDBK-1011/1	Tropical Engineering	UFC 3-440-05N	UFC 3-440-05N
MIL-HDBK-1011/2	Cooling Buildings by Natural Ventilation	UFC 3-440-06N	UFC 3-440-06N
MIL-HDBK-1012/3	Telecommunications - Premises Switch - Planning, Designing, and Estimating. Supplement One.	UFC 3-580-01	UFC 3-580-01
MIL-HDBK-1013/1	Design Guidelines for Physical Security of Facilities	MIL-HDBK-1013/1A	MIL-HDBK-1013/1A

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Document Number	Title	Superseded by	Current Document and Hyperlink
MIL-HDBK-1013/14	Selection and Application of Vehicle Barriers	UFC 4-022-02	UFC 4-022-02
MIL-HDBK-1021/1	Airfield Geometric Design	UFC 3-260-02	UFC 3-260-02
MIL-HDBK-1021/2	General Concepts for Airfield Pavement Design	UFC 3-260-02	UFC 3-260-02
MIL-HDBK-1021/4	Rigid Pavement Design for Airfields	UFC 3-260-02	UFC 3-260-02
MIL-HDBK-1021/5	Soil Stabilization for Pavement	UFC 3-260-02	UFC 3-260-02
MIL-HDBK-1021/6	Airfield Pavement Design for Frost Conditions and Subsurface	UFC 3-260-02	UFC 3-260-02
MIL-HDBK-1021/7	Airfield Pavement Evaluation	UFC 3-260-03	UFC 3-260-03
MIL-HDBK-1022A	Petroleum Fuel Facilities	UFC 3-460-01	UFC 3-460-01
MIL-HDBK-1024/1	Aviation Operational and Support Activities	UFC 4-141-10N	UFC 4-141-10N
MIL-HDBK-1025/1	Piers and Wharves	UFC 4-152-01	UFC 4-152-01
MIL-HDBK-1025/2	Dockside Utilities for Ship Service	UFC 4-150-02	UFC 4-150-02
MIL-HDBK-1025/6	General Criteria for Waterfront Construction	UFC 4-151-10	UFC 4-151-10
MIL-HDBK-1025/10	(DOD Handbook) Safety of Electrical Transmission and Distribution Systems	UFC 3-560-01	UFC 3-560-01
MIL-HDBK-1026/4	Mooring Design	UFC 4-159-03	UFC 4-159-03
MIL-HDBK-1027/1B	Firefighting School Facilities	UFC 4-179-01	UFC 4-179-01
MIL-HDBK-1027/4A	Aviation Training Facilities	UFC 4-171-01N	UFC 4-171-01N
MIL-HDBK-1028/1C	Aircraft Maintenance Facilities	UFC 4-211-01N	UFC 4-211-01N
MIL-HDBK-1028/3	Maintenance Facilities for Ammunition, Explosives, and Toxins	UFC 4-216-02	UFC 4-216-02
MIL-HDBK-1028/5A	Environmental Controls - Design of Clean Rooms	UFC 4-310-02N	UFC 4-310-02N
MIL-HDBK-1028/6A	Aircraft Fixed Point Utility Systems	UFC 4-121-10N	UFC 4-121-10N
MIL-HDBK-1028/8A	Design of Pest Management Systems	UFC 4-218-10N	UFC 4-218-10N
MIL-HDBK-1029/1	Graving Drydocks	UFC 4-213-10	UFC 4-213-10
MIL-HDBK-1029/3	Drydocking Facilities Characteristics	UFC 4-213-12	UFC 4-213-12
MIL-HDBK-1032/2	Covered Storage	UFC 4-442-01N	UFC 4-442-01N
MIL-HDBK-1034, Ch 1	Administrative Facilities	UFC 4-610-01	UFC 4-610-01
MIL-HDBK-1036A	Bachelor Quarters	UFC 4-721-10	UFC 4-721-10
MIL-HDBK-1036/4	Enlisted Dining Facilities	UFC 7-722-01	UFC 7-722-01
MIL-HDBK-1037/2A	Child Development Centers	UFC 4-740-14	UFC 4-740-14
MIL-HDBK-1037/3	Outdoor Sports and Recreation Facilities	UFC 4-750-02N	UFC 4-750-02N

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Document Number	Title	Superseded by	Current Document and Hyperlink
MIL-HDBK-1037/4	Brigs and Detention Facilities	MIL-HDBK-1037/4 is still in force for facilities originally designed and constructed using it.	Use American Correctional Association guidance and specifications.
MIL-HDBK- 1037/7	Officers, Non-Commissioned Officers Dining Facilities: Open Enlisted Dining Facilities	UFC 7-722-01	UFC 7-722-01
MIL-HDBK- 1037/8	Indoor Fitness/Recreational Facilities	UFC 4-740-02	UFC 4-740-02
MIL-HDBK- 1038	Weight Handling Equipment	UFC 3-320-07N	UFC 3-320-07N
MIL-HDBK- 1039/2	Unmanned Pressure Test Facilities Safety Certification Manual	UFC 4-390-01	UFC 4-390-01
MIL-HDBK- 1040	Basic Guidelines for Chemical Warfare Hardening of New Military Facilities	UFC 4-024-01	UFC 4-024-01
MIL-HDBK- 1104	Maintenance of Waterfront Facilities	UFC 4-150-07	UFC 4-150-07
MIL-HDBK- 1104/3	Inspection of Mooring Hardware (Draft)	UFC 4-150-08	UFC 4-150-08
MIL-HDBK- 1110	Handbook for Paints and Protective Coatings for Facilities	UFC 3-190-06	UFC 3-190-06
MIL-HDBK- 1114/2	Maintenance and Operation of Heating Systems	UFC 3-410-05N	UFC 3-410-05N
MIL-HDBK- 1119	Food Service Equipment	UFC 3-190-07N	UFC 3-190-07N
MIL-HDBK- 1125/1	Maintenance and Operations for Central Heating Systems	UFC 3-410-06N	UFC 3-410-06N
MIL-HDBK- 1130	Inactive Caretaker Maintenance Reactivation and Closure of Shore Facilities	UFC 4-911-01N	UFC 4-911-01N
MIL-HDBK- 1133	Estimating Energy and Water Consumption for Shore Facilities and Cold Iron Support for Ships	UFC 3-401-05N	UFC 3-401-05N
MIL-HDBK- 1138	Wastewater Treatment System Operations and Maintenance Augmenting Handbook	UFC 3-240-03N	UFC 3-240-03N
MIL-HDBK- 1151	Handbook for Inspection, Maintenance and Operation of Naval Reserve Center	UFC 4-610-02N	UFC 4-610-02N
MIL-HDBK- 1152	Inspection and Certifications of Boilers and Unfired Pressure Vessels	UFC 3-430-07	UFC 3-430-07
MIL-HDBK- 1164	Operations and Maintenance of Water Supply Systems	UFC 3-230-02	UFC 3-230-02
MIL-HDBK- 1165	Water Conservation	UFC 3-440-02N	UFC 3-440-02N

Document Number	Title	Superseded by	Current Document and Hyperlink
MIL-HDBK-1190	Facility Planning and Design Guide	UFC 3-101-01	UFC 3-101-01

Table 3
Cancelled Military Handbooks (no replacement available)

Document Number	Title
MIL-HDBK- 1010A	Cost Engineering Policy and Procedure
MIL-HDBK- 1013/11	Instruction for High Security Magazine Door Construction Projects
MIL-HDBK- 1025/3	Cargo Handling Facilities
MIL-HDBK- 1025/5	Ferry Terminals and Small Craft Berthing Facilities
MIL-HDBK- 1038/3	Yard Craft
MIL-HDBK- 1038/5	Towing Non-self-Propelled Floating Structures

SECTION 2 DESIGN MANUALS (DM)

Introduction

NAVFAC produced Design Manuals (DM) in the late 1970s and 1980s. Later in their development, large, all-encompassing DMs were broken into what were called "point manuals." In essence, the individual chapters of the original document were more fully developed and published as a separate document, numbered the same as the original DM, but with the addition of a "point number" that usually corresponded to the chapter number in the original DM.

For example: DM 1, "Architecture," was originally published in October 1974, and broken into four "point manuals" from 1984 to 1986. The four point manuals were DM 1.01, "Basic Architectural Requirements and Design Considerations;" DM 1.02, "Materials and Building Components;" DM 1.03, "Architectural Acoustics - Functional Requirements, Design and Technology;" and DM 1.04, "Earth-Sheltered Buildings."

In the late 1980s and early 1990s, NAVFAC began to convert the Design Manuals into Military Handbooks (MIL-HDBK.) Military Handbooks are part of the Defense Standardization Program. Design Manuals were placed in the 1000 series Military Handbooks, and usually the DM number corresponded to the new MIL-HDBK number.

For example: DM 7.03, "Soil Dynamics, Deep Stabilization and Special Design Aspects," was converted to Military Handbook 1007/3, "Soil Dynamics and Special Design Aspects."

Very few Design Manuals are still active.

The following listings are not all inclusive; they only include those manuals whose status has been positively affirmed.

Table 1
Active Design Manuals

Document Number	Title	Hyperlink
DM 3.15	Air Pollution Control Systems for Boilers and Incinerators	DM 3.15

**Table 2
Superseded Design Manuals**

Document Number	Title	Superseded by	Current Document and Hyperlink
DM 1	Architecture	DM 1.01, 1.02, 1.03 and 1.04	UFC 1-200-01
DM 1.01	Basic Architectural Requirements and Design Considerations	MIL-HDBK-1001/1	UFC 1-200-01
DM 1.02	Materials and Building Components	MIL-HDBK-1001/2	UFC 1-200-01
DM 1.03	Architectural Acoustics - Functional Requirements, Design and Technology	AIA Architectural Graphic Standards	Contact AIA
DM 2	Structural Engineering	DM 2.1, 2.2, 2.3, 2.04, 2.5, 2.6	UFC 1-200-01
DM 2.1	Structural Engineering - General Requirements	MIL-HDBK-1002/1	UFC 1-200-01
DM 2.2	Structural Engineering - Loads	MIL-HDBK-1002/2	UFC 3-310-01
DM 2.3	Structural Engineering, Steel Structures	MIL-HDBK-1002/3	UFC 1-200-01
DM 2.04	Structural Engineering Concrete Structures	UFC 1-200-01	UFC 1-200-01
DM 2.5	Structural Engineering - Timber Structures	MIL-HDBK-1002/5	UFC 1-200-01
DM 2.6	Structural Engineering - Aluminum Structures, Masonry Structures, Composite Structures, and other Structural Materials	MIL-HDBK-1002/6	UFC 1-200-01
DM 2.08	Blast Resistant Structures	UFC 3-340-02	UFC 3-340-02
DM 2.9	Masonry Structural Design for Buildings	UFC 3-310-05A	UFC 3-310-05A
DM 3	Mechanical Engineering	DM 3.1, 3.3, 3.4, 3.8	
DM 3.1	Plumbing Systems	DM 3.01	UFC 3-420-01
DM 3.01	Plumbing Systems	MIL-HDBK-1003/1	UFC 3-420-01
DM 3.3	Heating, Ventilating, Air Conditioning, and Dehumidifying Systems	DM 3.03	UFC 3-410-02N
DM 3.03	Heating, Ventilating, Air Conditioning and Dehumidifying Systems	MIL-HDBK-1003/3	UFC 3-410-02N
DM 3.4	Mechanical Engineering - Refrigeration Systems for Cold Storage	UFC 4-826-10	UFC 4-826-10
DM 3.06	Central Heating Plants	MIL-HBDBK-1003/6	UFC 3-430-08N

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Document Number	Title	Superseded by	Current Document and Hyperlink
DM 3.8	Exterior Distribution of Utility Steam, High Temperature Water (HTW), Chilled Water (CHW), Fuel Gas and Compressed Air	MIL-HDBK-1003/8	UFC 3-430-09
DM 3.10	Noise and Vibration Control for Mechanical Equipment	UFC 3-450-01	UFC 3-450-01
DM 3.14	Power Plant Acoustics	UFC 3-450-02	UFC 3-450-02
DM 4	Electrical Engineering	DM 4.1, 4.2 and 4.6	
DM 4.1	Electrical Engineering - Preliminary Design Considerations	MIL-HDBK-1004/1	UFC 3-501-03N
DM 4.2	Electrical Engineering - Power Distribution Systems	MIL-HDBK-1004/2	UFC 3-550-03N
DM 4.6	Electrical Engineering - Lightning and Cathodic Protection	MIL-HDBK-1004/6	MIL-HDBK-1004/6
DM 5	Civil Engineering	DM 5.4, 5.10	
DM 5.10	Civil Engineering - Solid Waste Disposal	UFC 3-240-14N	UFC 3-240-14N
DM 6	Drawings and Specifications	DM 6.02 and 6.03	
DM 6.02	Guide Specifications Manual	MIL-HDBK-1006/2	UFC 1-300-02
DM 6.03	Requirements for Engineering and Design Criteria Manual Preparation	MIL-HDBK-1006/3	UFC 1-300-01
DM 7	Soil Mechanics, Foundations, and Earth Structures	DM 7.1, 7.2 and 7.3	
DM 7.01	Soil Mechanics	UFC 3-220-01N	UFC 3-220-01N
DM 7.02	Foundations and Earth Structures	UFC 3-220-01N	UFC 3-220-01N
DM 7.1	Soil Mechanics	DM 7.01	UFC 3-220-01N
DM 7.3	Soil Dynamics, Deep Stabilization and Special	MIL-HDBK-1007/3	UFC 3-220-10N
DM 8	Fire Protection Engineering	MIL-HDBK-1008	UFC 3-600-01
DM 11.1	Tropical Engineering	MIL-HDBK-1011/1	UFC 3-440-05N
DM 13.1	Physical Security	MIL-HDBK-1013/1A	MIL-HDBK-1013/1A
DM 13.02	Commercial Intrusion Detection System (IDS)	DM 13.02	UFC 4-021-02NF
DM 21	Airfield Pavements	DM 21.1 AND 21.2	
DM 21.1	Airfield Geometric Design	MIL-HDBK-1021/1	UFC 3-260-02

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Document Number	Title	Superseded by	Current Document and Hyperlink
DM 21.10	Airfield Pavement Evaluation	UFC 3-260-03	UFC 3-260-03
DM 22	Liquid Fueling and Dispensing Facilities (Petroleum Fuel Facilities)	MIL-HDBK-1022	UFC 3-460-01
DM 23	Communications, Navigational Aids, and Airfield Lighting	DM 23.1 and 23.2	
DM 23.1	Airfield Lighting	MIL-HDBK-1023/1	NAVAIR 51-50 AAA-2 Request from NAVAIR
DM 23.2	Navigational and Traffic Aids	UFC 3-535-01	UFC 3-535-01
DM 25	Waterfront Operational Facilities	DM 25.1, 25.2 and 25.6	
DM 25.1	Piers and Wharves	MIL-HDBK-1025/1	UFC 4-152-01
DM 25.2	Dockside Utilities	MIL-HDBK-1025/2	UFC 4-150-02
DM 25.6	General Criteria for Waterfront Construction	MIL-HDBK-1025/6	UFC 4-150-06
DM 26	Harbor and Coastal Facilities	DM 26.1, 26.2 and 26.3	
DM 26.1	Harbors	MIL-HDBK-1026/1	UFC 4-150-06
DM 26.2	Coastal Protection	MIL-HDBK-1026/2	UFC 4-150-06
DM 26.3	Coastal Sedimentation and Dredging	DM 26.03	UFC 4-150-06
DM 26.03	Coastal Sedimentation and Dredging	UFC 4-150-06	UFC 4-150-06
DM 26.4	Fixed Moorings	UFC 4-159-03	UFC 4-159-03
DM 26.5	Fleet Moorings	UFC 4-159-03	UFC 4-159-03
DM 26.6	Moorings Design Physical and Empirical Data	UFC 4-159-03	UFC 4-159-03
DM 28	Maintenance Facilities	DM 28.3, 28.4, 28.5	
DM 28.3	Maintenance Facilities for Ammunition, Explosives and Toxics	MIL-HDBK-1028/3	UFC 4-216-02
DM 28.4	General Maintenance Facilities	MIL-HDBK-1028/4	UFC 4-229-01N
DM 28.5	Environmental Control - Design of Clean Rooms	MIL-HDBK-1028/5	UFC 4-310-02N
DM 29	Drydocking Facilities	DM 29.1, 29.2, 29.3	
DM 29.1	Graving Drydocks	MIL-HDBK-1029/1	UFC 4-213-10
DM 29.2	Marine Railways	MIL-HDBK-1029/2	
DM 29.3	Drydocking Facilities Characteristics	MIL-HDBK-1029/3	UFC 4-213-12
DM 32.2	Covered Storage	MIL-HDBK-1032/2	UFC 4-442-01N
DM 33	Hospital and Medical Facilities	DM 33.1, 33.2, 33.3	UFC 4-510-01

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Document Number	Title	Superseded by	Current Document and Hyperlink
DM 33.01	Medical Facilities - Preliminary Design Considerations	MIL-HDBK-1033/1	UFC 4-510-01
DM 33.02	Naval Regional Medical Centers Design and Construction Criteria	MIL-HDBK-1033/2	UFC 4-510-01
DM 33.03	Medical Clinics and Dental Clinics Design and Construction Criteria	MIL-HDBK-1033/3	UFC 4-510-01
DM 33.1	Medical Facilities, preliminary Design Considerations	DM 33.01	UFC 4-510-01
DM 33.2	Naval Regional Medical Centers Design and Construction Criteria	DM 33.02	UFC 4-510-01
DM 33.3	Medical Clinics and Dental Clinics Design and Construction Criteria	DM 33.03	UFC 4-510-01
DM 34	Administrative Facilities	MIL-HDBK-1034	UFC 4-610-01
DM 36	Troop Housing	DM 36.1, 36.2, 36.4	UFC 4-721-10
DM 36.1	Unaccompanied Personnel Housing	MIL-HDBK-1036	UFC 4-721-10
DM 36.2	Unaccompanied Enlisted Quarters	MIL-HDBK-1036	UFC 4-721-10
DM 36.3	Unaccompanied Officer Quarters	MIL-HDBK-1036	UFC 4-721-10
DM 36.4	Enlisted Dining Facilities	MIL-HDBK-1036/4	UFC 4-722-01
DM 37	Community Facilities	DM 37.3, 37.5, 37.6, 37.7	
DM 37.3	Outdoor Sports and Recreation Facilities	MIL-HDBK-1037/3	UFC 4-750-02N
DM 37.5	Family Service Centers - Functional Requirements and Design Guidance	UFC 4-730-01N	UFC 4-730-01
DM 37.6	Chapels and Religious Educational Facilities	UFC 4-730-02N	UFC 4-730-02N
DM 37.7	Officers and Non-Commissioned Officers Dining Facilities; Open Enlisted Dining Facilities	MIL-HDBK-1037/7	UFC 4-722-01
DM 38	Weight-Handling Equipment and Service Craft	DM 38.1, 38.2, 38.3, 38.4, 38.5	
DM 38.1	Weight Handling Equipment	MIL-HDBK-1038	UFC 3-320-07N
DM 38.4	Pile Driving Equipment	UFC 3-220-01N	UFC 3-220-01N
DM 39	Hyperbaric Facilities	UFC 4-159-01N	UFC 4-159-01N

Table 3 alynne
Cancelled Design Manuals (no replacement document available)

Document Number	Title
DM 1.04	Earth-Sheltered Buildings
DM 3.16	Thermal Storage Systems
DM 5.2	Civil Engineering - Hydrology and Hydraulics
DM 5.02	Civil Engineering - Hydrology
DM 9	Cold Regions Engineering
DM 10	Cost Data for Military Construction (For Official Use Only)
DM 14.01	Interior Design - Criteria and Programmatic Requirements for Evaluation
DM 14.2	Carpet Selection Guide
DM 21.3	Flexible Pavement Design for Airfields
DM 21.6	Airfield Subsurface Drainage and Pavement Design
DM 21.9	Skid Resistant Runway Surfaces
DM 24	Land Operational Facilities
DM 24.2	Helium Plants and Storage
DM 25.3	Cargo Handling Facilities
DM 25.4	Applications of Bulkheads and Cofferdams to Waterfront Construction
DM 25.5	Ferry Terminals and Small Craft Berthing Facilities
DM 28.2	Shipyards Maintenance Facilities
DM 30	Production Facilities
DM 31	Research, Development and Test Facilities
DM 32	Supply Facilities
DM 32.1	
DM 37.1	Training and Recreational Pools
DM 38.2	Dredging Equipment
DM 38.3	Yard Craft
DM 38.5	Towing Non-Self-propelled Floating Structures
DM 5.14	Groundwater Pollution Control

SECTION 3 MAINTENANCE AND OPERATION MANUALS (MO)

Introduction

In the late 1980s, NAVFAC started converting relevant Maintenance and Operation manuals into Military Handbooks, 1100 series. Not as many Maintenance and Operation manuals were converted as Design Manuals.

Maintenance and Operation manuals are currently being evaluated and converted to UFC as needed. This can be a long process as most Maintenance and Operation manuals were Navy-only, and therefore, must be unified with other single-service documents before being published.

The following listings are not all inclusive; they only include those manuals whose status has been positively affirmed.

Table 1
Active Maintenance and Operation Manuals

Document Number	Title	Hyperlink
MO 104.1	Maintenance of Fender Systems and Camels	MO 104.1
MO 104.2	Specialized Underwater Waterfront Facilities Inspection	MO 104.2
MO 111.1	Inspection of Wood Beams and Trusses	MO 111.1
MO 118	Inspection of Vertical Transportation Equipment	MO 118
MO 124	Mooring Maintenance Manual	MO 124
MO 200	Facilities Engineering Electrical Exterior Facilities	MO 200
MO 201	Electrical Power Distribution System	MO 201
MO 206	Maintenance and Operation of Air Compressor Plants	MO 206
MO 209	Maintenance of Steam, Hot Water and Compressed Air Distribution Systems	MO 209
MO 213	Solid Waste Management	MO 213
MO 221	Utilities Metering	MO 221
MO 230	Petroleum Fuel Facilities	MO 230
MO 310.1	Basic Pest Management	MO 310.1
MO 310.2	Urban Integrated Pest Management	MO 310.2
MO 312	Wood Protection	MO 312
MO 312.1	Inspection, Maintenance and Procurement Procedures for CDAA Wood Components	MO 312.1
MO 312.2	A Field Guide for the Receipt and Inspection of Treated Wood Products by Installation Personnel	MO 312.2
MO 312.3	Inspection, Maintenance and Procurement for Wood Poles	MO 312.3

Status of NAVFAC Engineering Criteria

Document Number	Title	Hyperlink
MO 314	Weed Control and Plant Growth Regulation	MO 314
MO 315	Pest Control Quality Assurance Evaluator Training Handbook	MO 315
MO 321	Facilities Management	MO 321
MO 322 V1	Volume 1 - Inspection of Shore Facilities	MO 322 Vol 1
MO 322 V2	Volume 2 - Inspection of Shore Facilities	MO 322 Vol 2
MO 327	Facilities Support Contract Quality Management Manual Change 1	MO 327
MO 330	Materials Testing	MO-330
MO 340	Ship-to-Shore Hose Handling Operations Manual	MO 340
MO 403	Navy Driver's Handbook	MO 403
MO 405	Maintenance and Operation of Archive Solar Energy Systems	MO 405
MO 406	Maintenance of Hyperbaric Facilities	MO 406
MO 909	Oil Ship Waste Offload Barge (SWOB); Operation and Maintenance	MO 909
MO 910	Sewage Ship Waste Offload Barge (SWOB)	MO 910
MO 911	Utilization of Navy Generated Waste Oils as Burner Fuel	MO 911
MO 912	Auxiliary Generators: Operation, Maintenance and Repair of	MO 912
MO 913	Historic Structures Preservation Manual	MO 913

Table 2
Superseded Maintenance and Operation Manuals

Document Number	Title	Superseded by	Current Document and Hyperlink
MO 104	Maintenance of Waterfront Facilities	UFC 4-150-07	UFC 4-150-07
MO 110	Paints and Protective Coatings	MIL-HDBK-1110	UFC 3-190-06
MO 117	Maintenance of Fire Protection Systems	UFC 3-600-02	UFC 3-600-02
MO 119	Building Maintenance - Galley Equipment	MIL-HDBK-1119	UFC 3-190-07N
MO 126	Inspection of Bridges and Trestles	AASHTO: Movable Bridge Inspection, Evaluation and Maintenance Manual, 1998	Contact AASHTO
MO 205 (V1)	Central Heating and Steam Electric Generating Plants (Vol 1)	MIL-HDBK-1125/1	UFC 3-410-06N
MO 205 (V2)	Central Heating and Steam Electric Generating Plants (Vol 2)	MIL-HDBK-1125/1	UFC 3-410-06N
MO 205 (V3)	Central Heating and Steam Electric Generating Plants (Vol 3)	MIL-HDBK-1125/1	UFC 3-410-06N
MO 205 (V4)	Central Heating and Steam Electric Generating Plants (Vol 4)	MIL-HDBK-1125/1	UFC 3-410-06N
MO 205 (V5)	Central Heating and Steam Electric Generating Plants (Vol 5)	MIL-HDBK-1125/1	UFC 3-410-06N
MO 210	Operation and Maintenance of Water Supply Systems	MIL-HDBK-1164	UFC 3-230-02
MO 210.9	Inspection of Elevated Water Tanks	MIL-HDBK-1164	UFC 3-230-02
MO 212	Operation and Maintenance of Domestic and Industrial Waste Systems	MIL-HDBK-1138	UFC 3-240-03N
MO 300	Inactivation, Caretaker Maintenance, Reactivation, and Shore Facilities	UFC 4-911-01N	UFC 4-911-01N
MO 303	Utilities Target Manual	UFC 3-401-05N	UFC 3-401-05N
MO 306	Maintenance and Operation of Cathodic Protection Systems	UFC 3-570-06	UFC 3-570-06

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Document Number	Title	Superseded by	Current Document and Hyperlink
MO 306.1	Maintenance and Operation of Cathodic Protection Systems (Pocket Edition)	UFC 3-570-06	UFC 3-570-06
MO 310	Military Entomology Operational Handbook	MO 310.1 and 310.2	MO 310.1 MO 310.2
MO 323	Inspection, Maintenance and Operations Manual for Naval Reserve Centers	UFC 4-610-02N	UFC 4-610-02N
MO 324	Inspection and Certification of Boilers and Unfired Pressure Vessels	UFC 3-570-06	UFC 3-570-06

Table 3
Cancelled Maintenance and Operation Manuals (no replacement available)

Document Number	Title
MO 304	Utilities Systems Analysis
MO 305	Activities Conservation Techniques
MO 307	Corrosion Control
MO 311	Marine Biology Operational Handbook
MO 325	Work Simplification for Maintenance of Public Works and Public Utilities
MO 404	Snow Removal Manual

SECTION 4 P-PUBLICATIONS (P)

Introduction

P-Publications are a miscellaneous category of documents. In many instances, they simply pre-date other document categories. In other instances, they are documents that simply did not fit in any other document series.

NAVFAC is currently reorganizing its documents into select categories. P-Publications will become a series of informational documents, with no technical, criteria-oriented design and construction documents. To that end, most P-Publications of this nature have been converted to Unified Facilities Criteria, or will be converted in the near future.

This document lists P-Pubs that are the responsibility of NAVFAC Atlantic. For all other P-Pubs, please contact [NAVFAC Headquarters, Washington DC](#).

**Table 1
Disposition of Select NAVFAC Atlantic P-Publications**

Document Number	Title	Status and/or Hyperlink
P-45-117-6-98	Electrical Safety Field Guide	P-45-117-6-98
P-68	Contracting Manual	Naval Facilities Acquisition Supplement (NFAS) located at https://portal.navy.mil/portal/page/portal/navfac/navfac_forbusinesses_pp_smallbusiness/contracting/navfac/nfas%20chg%2015%20acq%20final.pdf
P-80	Facility Planning Criteria for Navy/Marine Corps Shore Installations	P-80 web page at http://www.navy.mil/
P-80.1	Facility Planning Factors for Naval Shore Activities, Appendix C, Runway Capacity Handbook - Fixed Wing	P-80 web page at http://www.navy.mil/
P-80.2	Naval Mobile Construction Battalion Facilities	P-80 web page at http://www.navy.mil/
P-80.3	Facility Planning Factor Criteria for Navy and Marine Corps Shore Installations, Appendix E, Airfield Safety Clearances	P-80 web page at http://www.navy.mil/
P-89	Engineering Weather Data	Superseded by UFC 3-400-02
P-309	Colors for Naval Shore Facilities	Cancelled without replacement.
P-355	Seismic Design for Buildings	Use UFC 1-200-01 ; which adopts the IBC and explains how to use other applicable Structural UFC.
P-360	Courier Station Design	Superseded by UFC 4-730-03
P-383	Children's Outdoor Play Areas	Superseded by UFC 3-210-04

Status of NAVFAC Engineering Criteria

Document Number	Title	Status and/or Hyperlink
P-397	Structures to Resist the Effects of Accidental Explosions	Superseded by UFC 3-340-02
P-418	Dewatering and Ground Control	Superseded by UFC 3-220-05
P-433	Welding Materials Handbook	Superseded by UFC 3-340-02
P-442	Economic Analysis Handbook	P-442
P-710	Paint Handbook	P-710
P-930	Navy Family Housing Manual	Superseded by UFC 4-711-01
P-960	Installation Design	Superseded by UFC 3-600-01
P-1010	Lessons Learned from Design and Engineering of Naval Facilities	P-1010
P-1021	Federal Fire Prevention Manual	Superseded by OPNAVINST 11320.23F
P-1060	Electrical Transmission and Safety Manual	Superseded by UFC 3-560-01
P-1100	Expedient Repair of Utility Systems Manual	P-1100