

DoD UNIFIED FACILITIES CRITERIA PROGRAM

FY 2019 Program Review



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1 EXECUTIVE SUMMARY

The Department of Defense (DoD) is streamlining government criteria by eliminating duplication and increasing reliance on private sector standards. Since 1998, the Unified Facilities Criteria Program, under the leadership of the Engineering Senior Executive Panel (ESEP), implements these requirements for facility planning, design, construction, operations, and maintenance.

Unified Facilities Criteria (UFC), Facility Criteria (FC), and Unified Facilities Guide Specifications (UFGS) are technical manuals and specifications used for planning, design, construction, and maintenance of all DoD facility projects. Highlights and accomplishments for FY 2019 include:

- Achieved 83% unification rate for all UFC documents up from 80% in 2018 and 9% in 1998 (baseline year).
- Sustained 100% unification rate and 74% current – down from 86% current in 2018 - for all core UFC documents. Core UFC that are not current have ongoing projects to revise those documents.
- Published 12 new or revised UFC.
- Published 11 new and 37 revised UFGS.
- Continued bundling of UFGS for more cost-effective and efficient updates.

In addition to criteria document improvements, the program provides technical expertise and guidance on many key DoD issues. Major accomplishments in FY 2019 include:

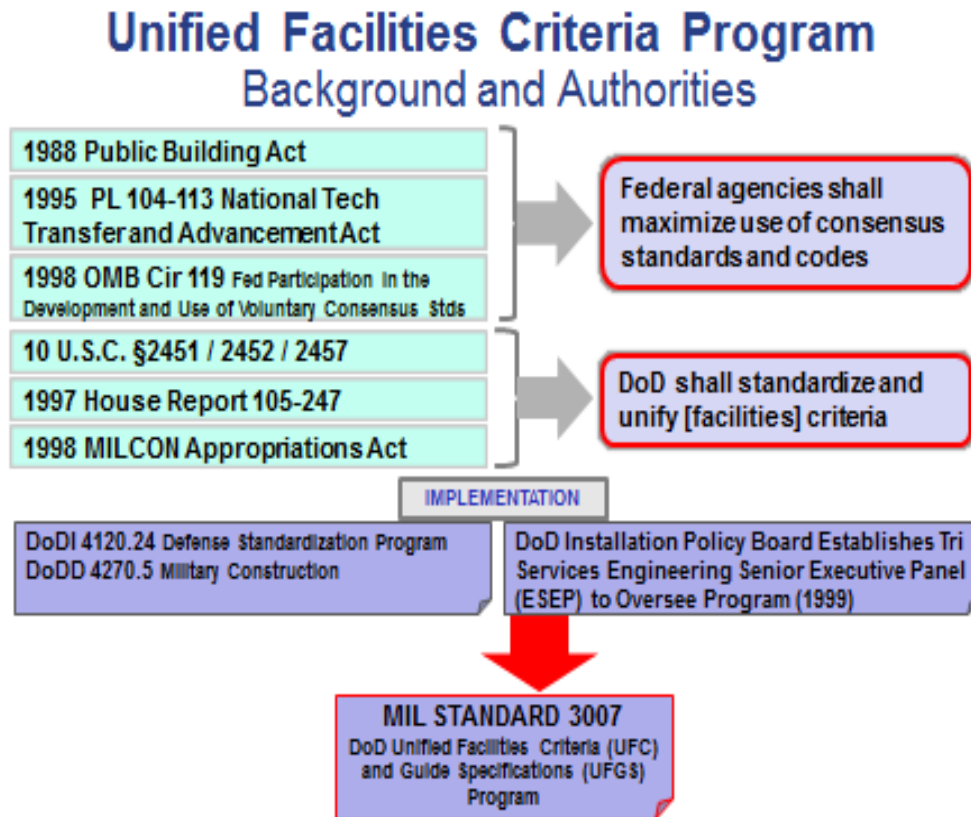
- Sponsored the fourth Discipline Working Group (DWG) Training Workshop to provide better program alignment and direction across DWGs to improve consistency and efficiencies. This year featured a panel discussion on the application and enforcement of UFC and UFGS during project planning, design and construction.
- Continued improvement to the Criteria Management System (CMS).
- Updated and published *MIL-STD 3007G: Standard Practice for UFC and UFGS*. Published revised *UFC 1-200-01 DoD Building Code: General Building Requirements*. These documents define building official and authority having jurisdiction.
- Published *UFC 4-010-01 DoD Minimum Antiterrorism Standards for Buildings* that establishes minimum engineering standards that incorporate antiterrorism-based mitigating measures where no identified threat or level of protection has been determined.
- Implemented criteria into existing UFC and UFGS to incorporate mitigation measures that reduce the threat from extreme weather events, mean sea level fluctuation, flooding, and any other known environmental threat to resilience.
- Updated UFC and UFGS control system requirements; continued updates to address UFC and UFGS cybersecurity requirements; undertook update to address Li-Ion mission battery-charging and storage requirements.
- Approved 49 projects (26 UFC projects; 23 UFGS projects) for FY 2020 with a funding request of \$3.89 million.

2 PROGRAM OVERVIEW

2.1 Program Authority

Public Law 104-113 (the National Technology Transfer and Advancement Act) and OMB Circular A119 (1998) require agencies to streamline government criteria by eliminating duplication of information and increasing reliance on private sector standards. For facility planning, design, construction and maintenance, the Department of Defense (DoD) complies with these requirements through the Unified Facilities Criteria (UFC) Program. The UFC program is implemented through *Military Standard (MIL-STD) 3007G, Standard Practice for Unified Facilities Criteria, Facilities Criteria and Unified Facilities Guide Specifications* in compliance with DoD Instruction 4120.24, "Defense Standardization Program," and directed by DoD Directive 4270.5, "Military Construction." The program objectives are:

- Streamline the military criteria by eliminating duplication of information;
- Increase reliance on private sector standards; and
- Create a more efficient criteria development and publishing process.

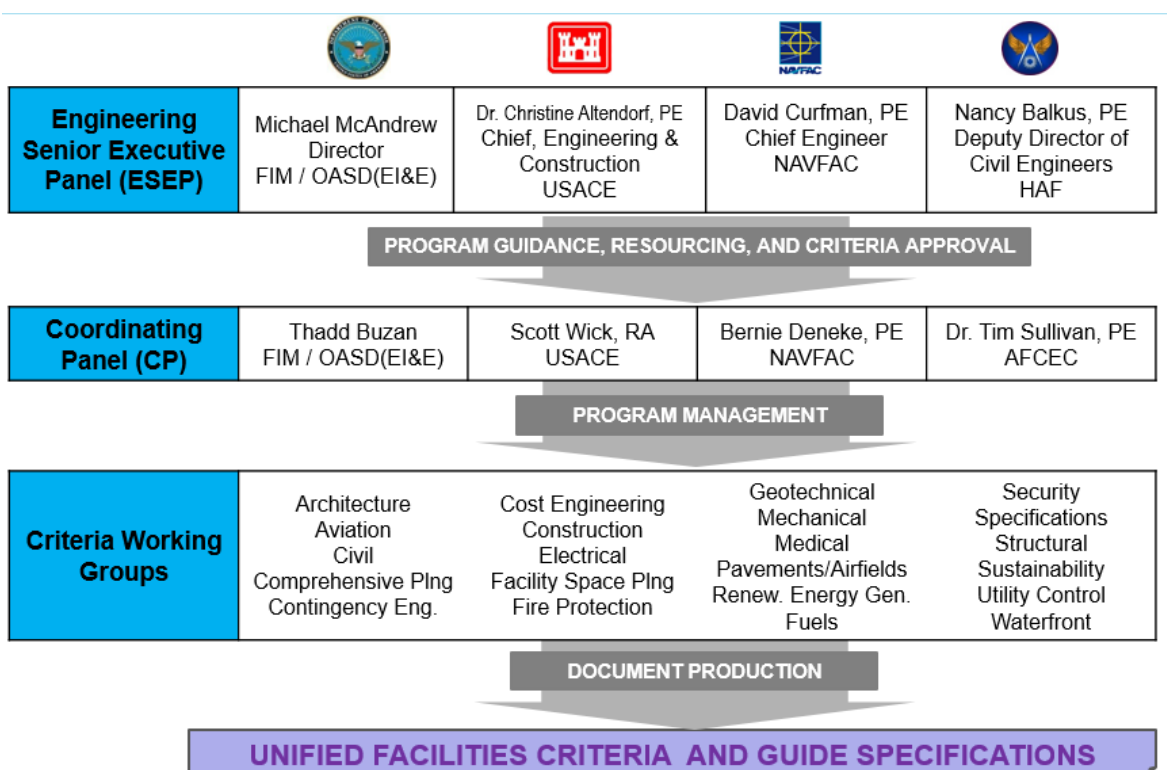


**Figure 2-1
UFC Program Background and Authorities**

2.2 Program Organization

The Engineering Senior Executive Panel (ESEP) provides program guidance, resourcing, and criteria approval. The Coordinating Panel (CP) provides program management and oversees the criteria discipline and functional working groups. The Discipline Working Groups (DWG) and Functional Working Groups (FWG) are responsible for criteria development and production. Program organization highlights for FY 2019:

- ESEP Chair–Joe Gott, David Curfman, Naval Facilities Engineering Command;
- CP Chair–Scott Wick, U.S. Army Corps of Engineers;
- Technical Coordinating Panel Chair–Eric Mucklow, U.S. Army Corps of Engineers; and
- 22 Discipline/Functional Working Groups.



**Figure 2-2
UFC Program Oversight and Structure**

2.3 Program Administration

The ESEP assigns personnel within U.S. Army Corps of Engineers (USACE), Naval Facilities Engineering Command (NAVFAC), Air Force Civil Engineer Center (AFCEC), and the Office of the Secretary of Defense (OSD) to participate on the CP and the 22 discipline and functional working groups. The working groups are responsible for development and maintenance of the criteria documents by in-house staff or by architect-engineering contracts.

2.4 Program Resources

The ESEP resources the UFC program administration through USACE, NAVFAC, AFCEC, and OSD. As such, the CP and the discipline and functional working groups are responsible for program management, development and maintenance of the criteria documents. Additional funding is also allocated by each service component to augment criteria work which requires resources outside of the working group. The breakout of funding allocated to criteria development and updates is shown in Table 2-1.

Service Component	FY 2016	FY 2017	FY 2018	FY 2019
USACE	\$1,500,000	\$1,400,000	\$1,620,000	\$1,321,000
NAVFAC	\$1,250,000	\$1,239,000	\$1,239,000	\$1,262,000
AFCEC	\$1,000,000	\$1,931,000	\$1,065,000	\$1,282,000
OSD	\$600,000	\$421,000	\$700,000	\$460,000
Total	\$4,350,000	\$4,991,000	\$4,624,000	\$4,325,000

**Table 2-1
Criteria Development Funding**

In addition to direct funding for development and maintenance of DoD criteria, funding is required for DoD access to non-government standards (industry consensus standards), management and distribution of DoD standards on the Whole Building Design Guide (WBDG), and administration and maintenance of SPECSINTACT. Significant cost savings are realized for these services by procurement through DoD bulk service contracts. The costs have been steady over the history of the program with the exception of minor adjustments accounting for inflation and have been funded by OSD. The breakout of FY 2019 costs is shown in Table 2-2.

SPECSINTACT	\$285,000
SPECSINTACT/Windows® Compatibility (update)	\$215,000
NIBS/WBDG	\$607,000
Non-Government Standards/IHS Support	\$2,380,000
UFC and UFGS Program Administration	\$92,000
TOTAL	\$3,579,000

**Table 2-2
Criteria Access and Distribution—FY 2019 Funding**

3 KEY INITIATIVES AND ACCOMPLISHMENTS

3.1 UFC/UFGS Highlights

- Achieved 83% unification rate for all UFC documents up from 80% in 2018 and 9% in 1998 (baseline year).
- Sustained 100% unification rate and 74% currency rate for all core UFC documents. Core UFC that are not current have ongoing projects to revise those documents.
- Published 12 new or revised UFC.
- Published 11 new and 37 revised UFGS.
- Continued bundling of UFGS for more cost-effective and efficient updates.

For FY 2019, the UFC program achieved 83% unification rate for all UFC documents up from 80% in FY 2018 and 9% in 1998 (baseline year). The program continued to sustain 100% unification rate and 74% current – down from 86% current in 2018 - for all core UFC documents. Core UFC documents that are not current have ongoing efforts associated with revisions to those documents. The program published 12 new or revised UFCs and 48 new and revised UFGS. The CP continued the process of developing core UFGS similar to the core UFCs and continued bundling of UFGS for more cost-effective and efficient updates.

Program health indices were again improved by removing inactive and archived UFC from the active document inventory.

3.2 Discipline Working Group Training Workshop

In May 2019, the ESEP and the CP sponsored the fourth Discipline Working Group (DWG) Training Workshop to provide better program alignment and direction across DWGs to improve consistency and efficiencies. Twenty-two DWGs participated in the two-day workshop. The workshop involved 90 DoD personnel representing the Services' criteria experts. Objectives included:

- Address UFC, FC, and UFGS program management concerns with the DWGs;
- Focus on FY 2020 and out-year program workload within each DWG; and
- Provide training on the tools supporting program management and development.

This year featured a panel discussion on the application and enforcement of UFC and UFGS during project planning, design and construction. Breakout sessions on special topics included energy resilience, cybersecurity, and climate and water resilience.

Workshop survey results indicated continued support for DWG training. A fifth workshop is planned for July 2020.

3.3 Criteria Management System

Throughout FY 2019, Criteria Management System (CMS) was enhanced, providing easier access to key reports and data. Use of CMS for development, review and approval of UFCs and UFGS was continuously improved. FY 2019 enhancements include:

- New project planning tool;
- Messaging and WBDG UFC/UFGS links;
- Quality control coordination form;
- Development of standard criteria drawings module;
- Updated report functions;

- Refined notification functions; and
- Improved user management tools.

3.4 Update Foundational Documents

FY 2019 saw the completion of substantial revisions to *MIL-STD-3007 G Standard Practice Unified Facilities Criteria, Facilities Criteria and Unified Facilities Guide Specifications*. This standard establishes policy for developing and maintaining UFC, FC, and UFGS as common facility standards and engineering practices for the DoD and other supported agencies. Also published FY 2019 was revised *UFC 1-200-01 DoD Building Code: General Building Requirements*. This foundational document provides general building requirements and overarching criteria, establishing the use of consensus building codes and standards, establishing criteria implementation rules and protocols, and identifying unique military criteria. In accordance with the authority in MIL-STD-3007 G, UFC and UFGS are prepared and published by the Military Services under the authority of the ESEP.

The two foundational documents clarify the definitions of authority having jurisdiction and building official providing necessary lines of authority for DoD facility-related projects.

3.5 Antiterrorism Standards UFC

UFC 4-010-01 DoD Minimum Antiterrorism Standards for Buildings was published in FY 2019. The UFC establishes minimum engineering standards that incorporate antiterrorism-based mitigating measures where no identified threat or level of protection has been determined. The document justifies design basis threat and levels of protection beyond minimum standards. The intent of these standards is to reduce collateral damage and the scope and severity of mass casualties in buildings or portions of buildings owned, leased, privatized, or otherwise occupied, managed, or controlled by or for DoD in the event of a terrorist attack.

3.6 Resilience

During FY 2019, criteria were developed and implemented into existing UFC and UFGS to incorporate mitigation measures that reduce the threat from extreme weather events, flooding, and any other known environmental threat to resilience. DoD developed plans to integrate the DoD Regional Sea Level database into installation and facilities planning at coastal locations to account for future sea level change. The Air Force began developing the capability of an installation to sustain the projection of combat power by protecting against, responding to, and recovering from deliberate, accidental, or naturally occurring events that impede air, space, or cyberspace operations.

3.7 Other Significant Projects

In FY 2019 UFC and UFGS control system requirements were updated. DoD requires adoption of an open protocol energy monitoring and utility control system specification for use throughout DoD. The Services and OSD discussed the requirements and determined that the intent was the implementation of open systems, not use of an open protocol in an otherwise closed/proprietary system. The solution was to update relevant specifications.

OSD is leading the initiative to develop testing procedures for cybersecurity product certification. The Utility Control DWG is involved. The CP also undertook updates to address Li-Ion mission battery charging and storage requirements.

3.8 Project Prioritization for FY 2020

During FY 2019, the CP conducted an in-depth project prioritization for FY 2020 UFC/UFGS projects. DWGs were notified with a call for projects and input was received from 13 DWGs via submission through CMS. Forty-nine criteria projects were proposed; these included new starts, revisions, changes, and “bundled” projects totaling approximately \$3.982 million. The CP approved 49 projects (26 UFC projects; 23 UFGS projects). These funded projects and associated documents are listed in Section 4 and 5 of this report along with additional FY 2020 projects involving minor changes or consolidation of documents not requiring funding (in-house efforts).

Discipline Working Group	Funding		UFC	UFGS
	Allocation	# of Projects		
Architecture	\$480,000	6	2	4
Civil	\$75,000	2	1	1
Construction	\$225,000	3	0	3
Electrical	\$420,000	5	2	3
Fire Protection	\$50,000	1	1	0
Mechanical	\$885,000	11	6	5
Pavements	\$845,000	4	2	2
Security	\$75,000	2	2	0
Specifications	\$0	2	1	1
Structural	\$150,000	4	3	1
Sustainability	\$0	3	2	1
Waterfront	\$685,000	6	4	2
Grand Total	\$3,890,000	49	26	23

Table 3-1
FY 2020 Funding Allocation for Approved Projects by DWG

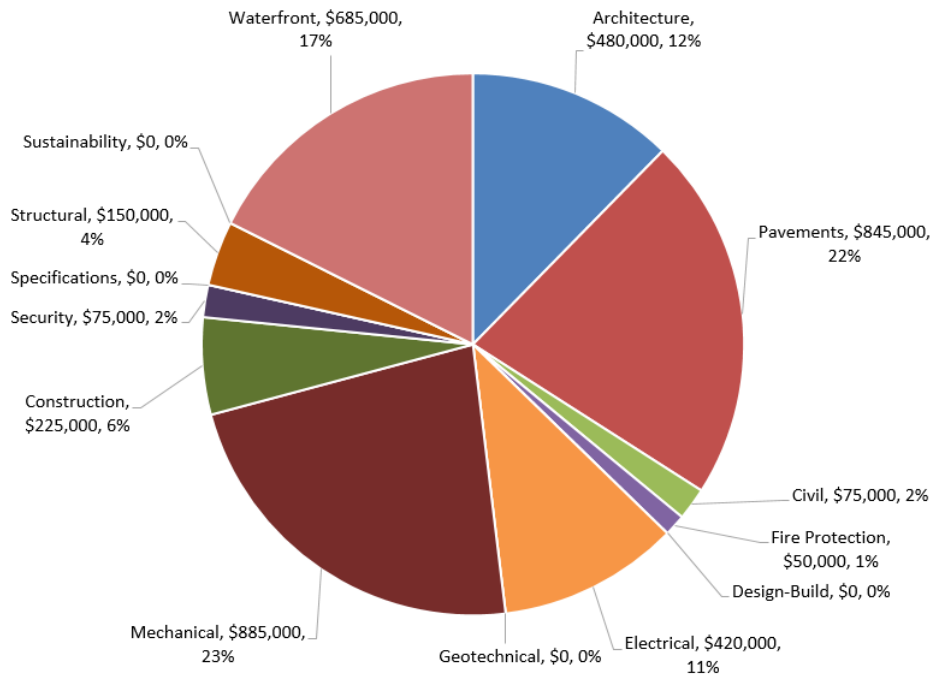


Table 3-2
FY 2020 Criteria Projects--Estimated Cost by DWG

4 UNIFIED FACILITIES CRITERIA (UFC)

4.1 Introduction

UFC and FC documents are technical manuals used for planning, design, construction, and maintenance of DoD facilities. The majority of UFC and FC are design manuals that define design requirements and best practices for DoD construction projects. A smaller percentage of UFC provide planning requirements, maintenance guidance, and handbook-type information used by field personnel.

4.2 Criteria Strategy

Industry codes and standards provide minimum consensus safety and performance requirements and are the basis of DoD criteria. *UFC 1-200-01 General Building Requirements* implements the International Building Code and other consensus codes and standards. UFC 1-200-01 also references 27 other “core” UFC documents and other DoD special requirements to implement legislation and policy, and provide criteria associated with unique DoD functions. These documents collectively comprise the “DoD Building Code.”

The remaining UFC and FC documents generally fall into two categories: facility-type or specialty-type. Facility-type UFC documents provide space and functional requirements for facilities built frequently (such as fitness centers) or have unique DoD requirements (such as aircraft hangars and Navy piers). Specialty-type UFC documents are used on projects that require the use of a specialty system or component (such as cathodic protection, boiler control systems, and dockside utilities).

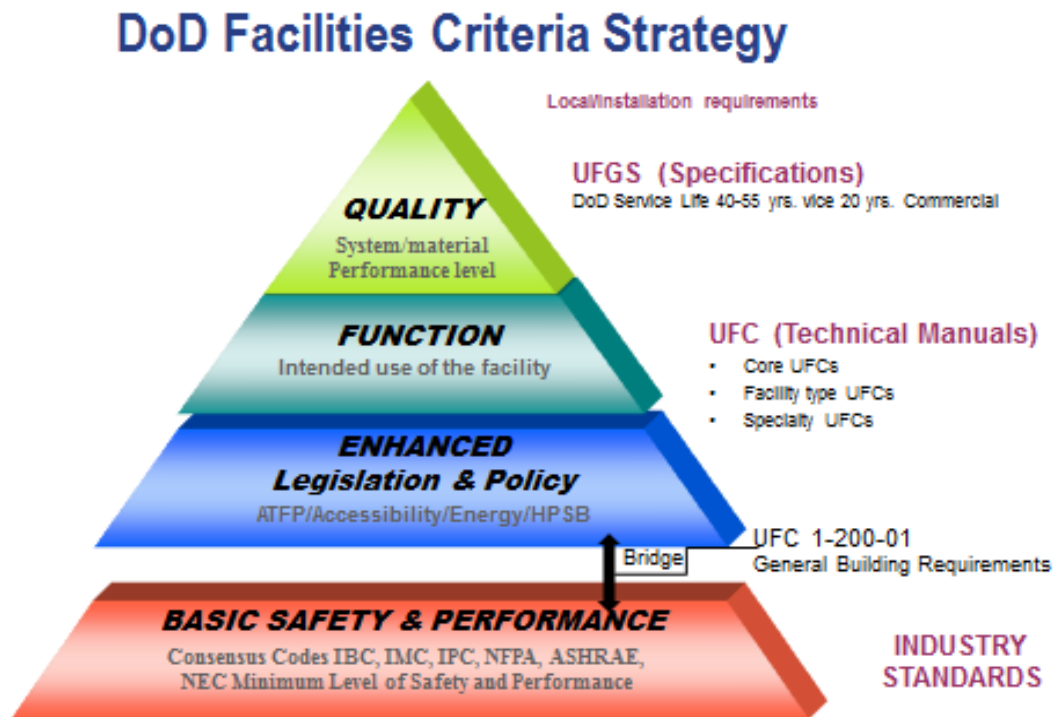
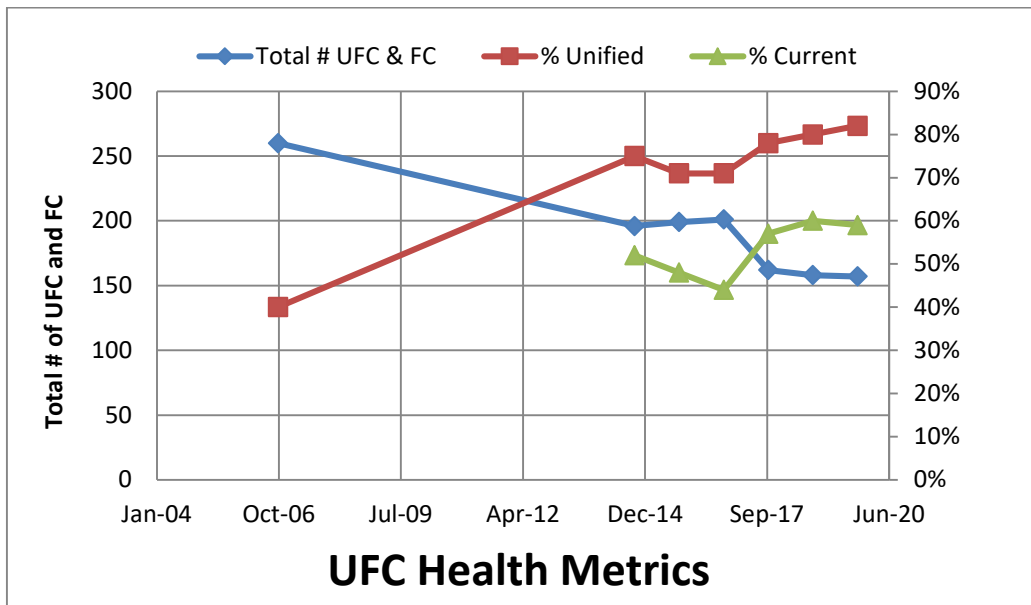


Figure 4-1
DoD Facilities Criteria Strategy

4.3 Health Metrics

The primary indicators of UFC health are “% Unified” and “% Current.” % Unified represents the percentage of total UFC documents used by all three Military Departments that are unified, and indicates progress toward reducing duplicate criteria. % Current represents the percentage of all UFC documents that have been revised within a specified target timeframe or refresh rate. Refresh rates are assigned as 3 years, 6 years, 9 years, or 12 years. UFC documents can be kept current on an interim basis by incorporating minor changes and publishing as a “change” (without updating the publication date) rather than a full revision. UFC changes are not captured in the % Current calculation. Data collection for % Current began in FY 2011. The baseline for % Unified data is extracted from the March 1998 report to the Congressional Defense Committees titled “Unified Design Guidance.”

In FY 2019, 100% of the 27 core UFC were unified and 74% were current. Core UFC that are not current have ongoing projects to revise those documents.



	Oct-98	Oct-06	Oct-16	Oct-17	Oct-18	Oct-19
Total # UFC & FC	361	260	201	162	158	158
% Unified	9%	40%	71%	78%	80%	83%
% Current	N/A	N/A	44%	57%	60%	59%

**Table 4-1
UFC Health Metrics – All UFC**

A UFC or FC is considered “current” when its individual health index is less than 1. The health index of a document is a measure of the age of the document as compared to its refresh rate, see equation 4-1. Hence, if the health index of the document is less than 1, the document is considered to be up to date and current. If a document health index is greater than 1, it is considered beyond its established refresh

rate and requires a revision to revalidate and update requirements. Note that a document with a health index greater than 1 does not mean the document is invalid. It signifies that the document needs revalidation or revisions to remain current.

$$\text{Document Health Index} = \text{HI}_{\text{DOC}} = \frac{(\text{Current Date} - \text{Document Publication Date})_{\text{yrs}}}{(\text{Refresh Rate})_{\text{yrs}}}$$

Equation 4-1
Document Health Index

4.4 FY 2019 UFC Publications

In FY 2019, 12 new or revised UFC were published:

UFC 1-200-01 DoD Building Code
UFC 3-301-01 Structural Engineering
UFC 3-240-03N Wastewater Treatment Systems Augmenting Handbook Operation and Maintenance
UFC 4-510-01 Design: Military Medical Facilities
UFC 3-570-06 O&M: Cathodic Protection Systems
UFC 4-730-10AF Fire Stations
UFC 3-260-16 O&M Manual: Airfield Pavement Condition Survey Procedures Pavements
UFC 4-740-02 Fitness Centers
UFC 3-260-01 Airfield and Heliport Planning and Design
UFC 4-010-01 DoD Minimum Antiterrorism Standards for Buildings
UFC 4-150-09 Permanent Anchored Moorings O&M
UFC 3-460-01 Design: Petroleum Fuel Facilities

4.5 FY 2020 UFC Projects

Architecture

FC 4-721-10N: Navy and Marine Corps Unaccompanied Housing
FC 4-722-01F: Air Force Dining Facilities

Aviation

UFC 3-260-01: Airfield and Heliport Planning and Design

Civil Engineering

UFC 4-860-03: Railroad Track Maintenance and Safety Standards

Cost Engineering

UFC 3-701-01: DoD Facilities Pricing Guide
UFC 3-730-01: Programming Cost Estimates for Military Construction

Electrical Engineering

UFC 3-575-01: Lightning and Static Electricity Protection Systems

Fire Protection Engineering

FC 4-420-07F: Air Force Nuclear Weapons-Capable Maintenance and Storage Facilities

Geotechnical Engineering

UFC 3-220-01: Geotechnical Engineering
UFC 3-220-10N: Soil Mechanics

Mechanical Engineering

UFC 3-410-01: Heating, Ventilating and Air Conditioning
UFC 3-410-02: Direct Digital Control for HVAC and Other Building Control Systems
UFC 4-826-10: Design: Refrigeration Systems for Cold Storage

Pavements/Airfields

UFC 3-250-01: Pavement Design for Roads and Parking Areas
UFC 3-260-16: O&M Manual: Airfield Pavement Condition Survey Procedures Pavements

Security Engineering

UFC 4-025-01: Security Engineering: Waterfront Security

Specifications

UFC 1-300-02 Unified Facilities Guide Specifications (UFGS) Format Standard

Structural Engineering

UFC 3-301-01: Structural Engineering
UFC 3-320-06A: Concrete Floor Slabs on Grade Subjected to Heavy Loads
UFC 3-340-01: Design and Analysis of Hardened Structures to Conventional Weapons Effects

Sustainability

UFC 1-200-02: High Performance and Sustainable Building Requirements

Utility Control

UFC 3-470-01: Utility Monitoring and Control System (UMCS) Front End and Integration
UFC 3-550-04: Installation Microgrid Design
UFC 4-010-06: Cybersecurity of Facility-Related Control Systems

Waterfront

UFC 4-150-07: Maintenance and Operation: Maintenance of Waterfront Facilities
UFC 4-152-01: Design: Piers and Wharves
UFC 4-152-07: Design: Small Craft Berthing Facilities
UFC 4-159-03: Moorings

5 UNIFIED FACILITIES GUIDE SPECIFICATIONS (UFGS)

5.1 Introduction

UFGS are technical master guide specifications used in construction projects. UFGS reference industry-consensus test and material standards and are mostly prescriptive in nature. UFGS are edited by the designer for each project and are directed to the construction contractor. Sections are numbered and titled in accordance with Construction Specifications Institute's (CSI) Masterformat™ 2012. Sections are organized into three parts in accordance with UFC 1-300-02:

Part 1 – GENERAL

References

Submittals

Part 2 – PRODUCTS

System performance

Materials

Part 3 – EXECUTION

How to install

Field quality control and testing

5.2 Criteria Strategy

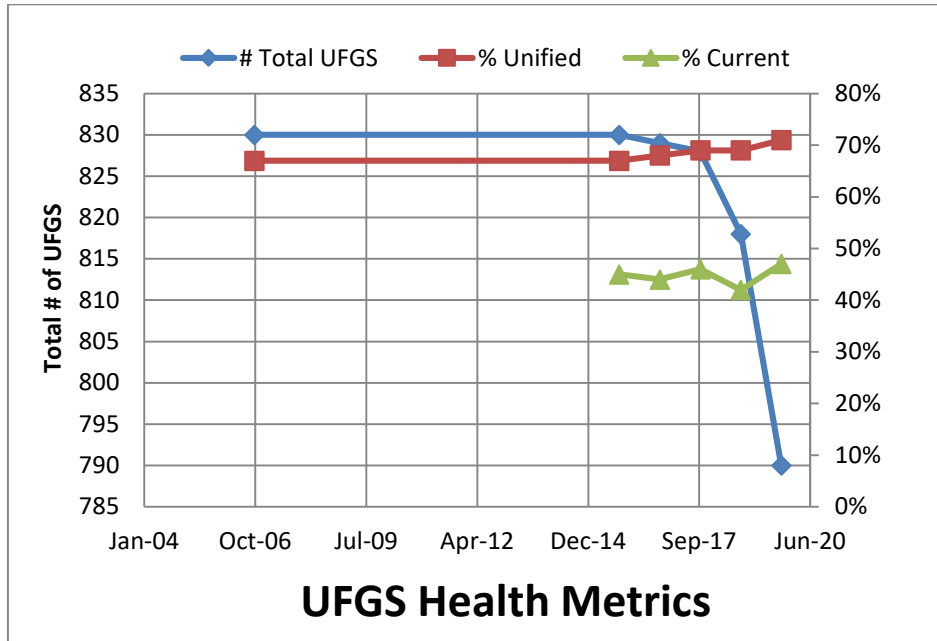
UFGS provide the level of quality and performance to provide best life-cycle cost sustainment for DoD facilities over a 45-55-year service life. UFGS are editable in order to adjust quality and level of performance based on project specific factors such as climate zone, site factors, structural loading, corrosion potential, durability requirements, facility criticality, and appearance requirements. DWGs identify the primary UFC tied to their UFGS, and its relationship in content (low, medium, or high) as part of this effort. CMS is being programmed to show the UFC and UFGS relationship fields in the document screens. In FY 2018, the CP began the process of developing core UFGS similar to the core UFCs and continued bundling of UFGS for more cost-effective and efficient updates.

5.3 Health Metrics

The primary indicators of UFGS health are “% Unified” and “% Current”. % Unified represents the percentage of total UFGS used by all three Military Departments that are unified and indicates progress toward reducing duplicate criteria. % Current represents the percentage of all UFGS that have been revised within a specified target timeframe or refresh rate. Refresh rates are assigned as 3 years, 5 years, or 7 years.

CMS data collection for % Current began in FY 2012 for UFGS. The baseline for % Unified data is extracted from the March 1998 report to the Congressional Defense Committees titled “Unified Design Guidance.”

UFGS are considered “current” when their individual health index is less than 1. Similar to UFC and FC, the UFGS health index of a document is a measure of the age of the document as compared to its refresh rate, see equation 4-1.



	Oct-98	Oct-06	Oct-15	Oct-16	Oct-17	Oct-18	Oct-19
# Total UFGS	1179	830	830	829	828	818	790
% Unified	0%	67%	67%	68%	69%	69%	71%
% Current	N/A	N/A	45%	44%	46%	42%	47%

Table 5-1
UFGS Health Metrics

5.4 FY 2018 New and Revised UFGS

In FY 2019, 11 new and 37 revised UFGS were released. A complete listing of UFGS can be found at: http://www.wbdg.org/ccb/browse_cat.php?c=3

5.5 FY 2020 UFGS Projects

Architecture

UFGS 03 53 14.00 20: Light Reflective Nonferrous Metallic Aggregate Floor System

UFGS 04 25 13: Metal-Supported Unit Masonry Panels

UFGS 05 51 33: Metal Ladders

Civil

UFGS 34 11 00: Railroad Track and Accessories

Construction

UFGS 01 14 00: Work Restrictions
UFGS 01 20 00.00 20: Price and Payment Procedures
UFGS 01 32 01.00 10: Project Schedule

Electrical

UFGS 26 00 00.00 20: Basic Electrical Materials and Methods
UFGS 26 05 13.00 40: Medium-Voltage Cables
UFGS 26 13 13: Metal-Clad Switchgear
UFGS 26 13 14: Switchgear House
UFGS 26 31 00: Solar Photovoltaic (PV) Components

Mechanical

UFGS 23 07 00: Thermal Insulation for Mechanical Systems
UFGS 23 09 33.00 40: Electric and Electronic Control System for HVAC
UFGS 23 21 13.00 20: Low Temperature Water (LTW) Heating System
UFGS 23 21 13.23 20: [High] [Medium] Temperature Water System Within Buildings
UFGS 23 52 33.01 20: Steam Heating Plant Watertube (Shop Assembled) Coal/Oil or Coal

Pavements/Airfields

UFGS 32 01 11.51: Rubber and Paint Removal from Airfield Pavements
UFGS 32 12 22.00 10: Polymer Concrete-Micro-Overlay (PCMO) For Fuel and Abrasion Resistant Wearing Surfaces

Specifications

UFGS 00 22 13.00 20: Supplementary Instructions to Offerors

Sustainability

UFGS 01 33 29: Sustainability Reporting

Structural

UFGS 33 16 15: Water Storage Steel Tanks

Waterfront

UFGS 35 20 23: Dredging
UFGS 35 42 34: Reinforced Soil Slope

6 CRITERIA CHANGE REQUESTS (CCR)

6.1 Introduction

Criteria Change Requests (CCR) provide a process whereby users of UFC, FC, and UFGS can submit commentary on DoD criteria documents. Such commentary may warrant corrections to the documents that reflect lessons learned and/or current industry standards and work practices. Anyone with access to the internet may use Criteria Change Requests (CCR) to document and submit comments on UFC, FC, and UFGS. The CCR database was moved to the criteria management system in FY 2011 to improve working group notification, execution, and tracking of CCRs which had been all but nonexistent in prior years. The system has improved CCR resolution immensely. The open nature of the CCR commenting system, technical requirements that may be associated with CCR resolution and resources necessary to update criteria documents, on average 600 to 700 CCR are actively under consideration in any one fiscal year. The disposition of CCRs by fiscal year is shown in Figure 6-1.

6.2 CCR Status

CCR status provides a means to manage and track submitted CCRs until they are completed and incorporated into UFC, FC and UFGS documents or disapproved. Depending on the potential impact of approved CCRs, consideration is given to the urgency of the requested change. In some instances, the approved CCR change may occur quickly and necessary changes or revisions are made to UFC, FC or UFGS documents. In other instances, where the change is not urgent, but necessary, the CCR will be incorporated into the criteria documents at the next scheduled revision to the document during the normal revision cycle. Once reviewed and approved, a CCR remains in an 'Approved' status until it is incorporated into the criteria documents at which time it is marked 'Complete/Incorporated.'

Criteria Change Requests

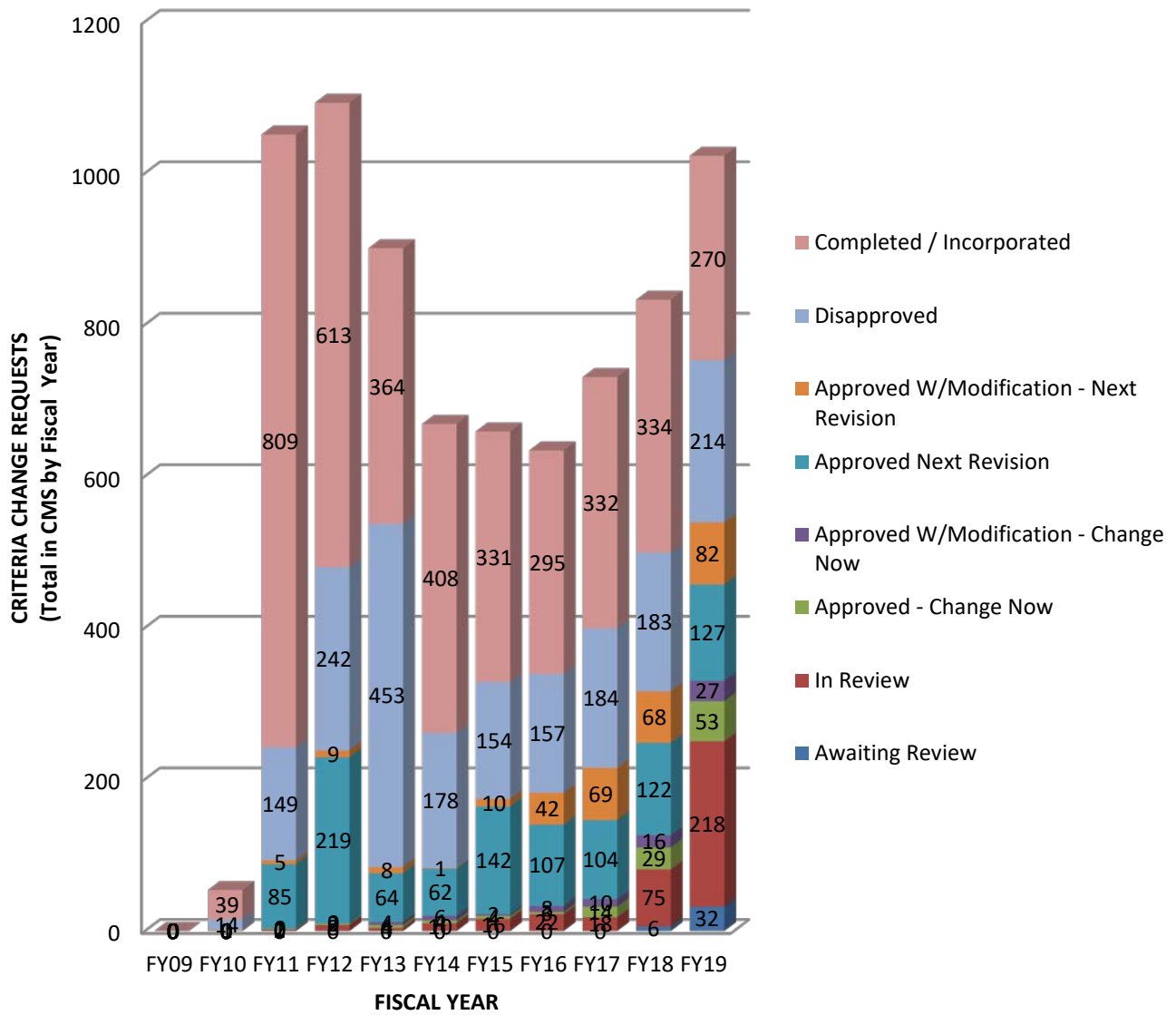


Figure 6-1
CCR Status FY 2009 - FY 2019