DoD UNIFIED FACILITIES CRITERIA PROGRAM

FY 2018 Program Review
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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 2018 include:

- Achieved 80% unification rate for all UFC documents up from 78% in 2017 and 9% in 1998 (baseline year).
- Sustained 100% unification rate and 86% currency rate for all core UFC documents. Core UFC that are not current have ongoing projects to revise those documents.
- Published 24 new or revised UFC.
- Published 74 new and revised and 159 changed 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 2018 include:

- Sponsored the third Discipline Working Group (DWG) Training Workshop to provide better program alignment and direction across DWGs to improve consistency and efficiencies. This year, an industry panel provided insights into the needs of corporate partners.
- Continued improvement to the Criteria Management System (CMS) including training sessions for users and easier access to key reports and data. Revision to upcoming and late reports provide easier tracking.
- Completed second round of executive reviews of all DWGs and noted continued improvement in Criteria Change Request (CCR) resolutions.
- Continued to conduct a major study to assess the materials for DoD runways, taxiways, aprons, and other pavements supporting existing platforms.
- Issued first UFC on Elevators that complies with the 2018 National Defense Authorization Act (NDAA) requirements.
- Established two new DWGs on Fuels and Construction.
- Approved 40 projects (16 UFC projects; 91 UFGS projects) for FY 2019 with a funding request of $3.9 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) 3007F, “Standard Practice for Unified 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 2018:

- ESEP Chair–Larry McCallister, U.S. Army Corps of Engineers;
- CP Chair–Bernie Deneke, Naval Facilities Engineering Command;
- Technical Coordinating Panel (TCP) Chair–Craig Mellerski, U.S. Air Force; and
- 22 Discipline/Functional Working Groups.

![Diagram of 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.

<table>
<thead>
<tr>
<th>Service Component</th>
<th>FY 2015</th>
<th>FY 2016</th>
<th>FY 2017</th>
<th>FY 2018</th>
</tr>
</thead>
<tbody>
<tr>
<td>USACE</td>
<td>$1,400,000</td>
<td>$1,500,000</td>
<td>$1,400,000</td>
<td>$1,620,000</td>
</tr>
<tr>
<td>NAVFAC</td>
<td>$855,000</td>
<td>$1,250,000</td>
<td>$1,239,000</td>
<td>$1,239,000</td>
</tr>
<tr>
<td>AFCEC</td>
<td>$800,000</td>
<td>$1,000,000</td>
<td>$1,931,000</td>
<td>$1,065,000</td>
</tr>
<tr>
<td>OSD</td>
<td>$0</td>
<td>$600,000</td>
<td>$421,000</td>
<td>$700,000</td>
</tr>
<tr>
<td>Total</td>
<td>$3,055,000</td>
<td>$4,350,000</td>
<td>$4,991,000</td>
<td>$4,624,000</td>
</tr>
</tbody>
</table>

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 2018 costs is shown in Table 2-2.

<table>
<thead>
<tr>
<th>Description</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPECSINTACT</td>
<td>$325,000</td>
</tr>
<tr>
<td>SPECSINTACT/Windows® Compatibility (update)</td>
<td>$250,000</td>
</tr>
<tr>
<td>NIBS/WBDG</td>
<td>$650,000</td>
</tr>
<tr>
<td>Non-Government Standards/IHS Support</td>
<td>$2,280,000</td>
</tr>
<tr>
<td>UFC and UFGS Program Administration</td>
<td>$100,000</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td><strong>$3,605,000</strong></td>
</tr>
</tbody>
</table>

Table 2-2
Criteria Access and Distribution–FY 2018 Funding
3  KEY INITIATIVES AND ACCOMPLISHMENTS

3.1 UFC/UFGS Highlights

For the FY 2018, the UFC program achieved 80% unification rate for all UFC documents up from 78% in 2017 and 9% in 1998 (baseline year). The program continued to sustain 100% unification rate and 86% currency rate for all core UFC documents. Core UFC documents that are not current have ongoing efforts associated with revisions to those documents. The program published 24 new or revised UFCs including a new UFC on elevator design and 74 new or revised and 159 changed UFGS. 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.

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

3.2 Discipline Working Group Training Workshop

In May 2018, the ESEP and the CP sponsored the third Discipline Working Group (DWG) Training Workshop. Twenty-one DWGs participated in the two-day workshop. This third training session with over 90 DoD personnel representing the Services’ criteria experts was organized to provide better program alignment and direction across DWGs and Functional Working Groups to gain consistency and efficiencies in practice. Objectives included:

- Address UFC, FC, and UFGS program management concerns with the DWGs;
- Focus on FY 2019 and out-year program workload within each DWG; and
- Provide training on the tools supporting program management and development.

This year an industry panel representing DBIA, SAME, AGC, AE and construction contractors provided insights into the needs of corporate partners. Industry representatives provided opinions on question of criteria that drive up costs without commensurate quality benefits. Panelists stressed clarity with requirements and consideration of avoiding unneeded criteria that limit design choice.

Workshop survey results indicated continued support for DWG training. A fourth workshop is planned for May 2019.

3.3 Criteria Management System

Throughout FY 2018, 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. The UFC program sponsored a number of onsite, hands-on training sessions for new criteria managers and to introduce new enhancements to experienced users. These FY 2018 enhancements include:

- Started developing a CMS module for drawing management to standardize drawings posted on CMS.
- Updated workload planning reports for ease of use.
- Improved reports available from CMS for project status, document health, and upcoming and late documents.
- Updated bundled projects with ability to update after CP approval.
- Improved user administration and display including ability to replace a user's assignments with another user.
- Added site-wide updates that refined access and views across users.
3.4 DWG Execution Reviews

The CP completed a second annual round of project execution reviews for 15 DWGs. There was a continued improvement in Criteria Change Requests (CCR) resolutions. This year’s template asked for top three criteria efforts and queried DWG project execution. These DWG Execution Reviews are also essential to inform the CP of pending issues with projects and the program, in general.

3.5 Two New DWGs

In FY 2018, two new DWGs were added. The first, Fuels Discipline Working Group, is responsible for developing and maintaining criteria for providing safe, operationally effective, and economic DoD infrastructure for storage, distribution, and dispensing of aerospace, marine, and ground fuels. This also includes the development of maintenance criteria for these systems. The DWG works with concurrence of the Defense Logistics Agency.

The purpose of the second new DWG on Construction is to add efficiencies to Tri-Service construction contract administration. Construction DWG will manage some of the Division 00 and Division 01 UFGS to be negotiated with the Specification DWG. The establishment of this Construction DWG will drive consistency and efficiency in Tri-Service contract administration.

3.6 Airfield Pavements Study

DoD continued its study to assess the materials for runways, taxiways, aprons, and other pavements supporting existing platforms. New aircraft platforms, such as the P-8A, KC-46, F-35B/C, and MV-22, place thermal, blast, and wheel-load stresses on the pavement which far exceed that of their predecessors. These stresses have had an extreme impact on the stability of the airfield pavements and have increased the required repairs where the platforms are located. The study is assessing the appropriate materials for runways and taxiways supporting existing, new and anticipated future platforms based on life-cycle cost analysis. The study will be concluded in FY 2019.

3.7 Project Prioritization for FY 2019

During FY 2018, the CP conducted an in-depth project prioritization for FY 2019 UFC/UFGS projects. DWGs were notified with a call for projects and input was received from 14 DWGs via submission through CMS. Ninety-eight criteria projects totaling 188 UFC and/or UFGS documents were proposed; these included new starts, revisions, changes, and “bundled” projects totaling approximately $7.2 million. The CP approved 40 projects totaling 107 UFC and/or UFGS (16 UFC projects; 91 UFGS projects) with a proposed price tag of $3.9 million (FY19 control amount).
<table>
<thead>
<tr>
<th>Discipline Working Group</th>
<th>Funding Allocation</th>
<th># of Projects</th>
<th>UFC</th>
<th>UFGS</th>
</tr>
</thead>
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<tr>
<td>Architecture</td>
<td>$1,648,000</td>
<td>10</td>
<td>2</td>
<td>45</td>
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<tr>
<td>Aviation</td>
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<td>1</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>Civil</td>
<td>$140,000</td>
<td>2</td>
<td>1</td>
<td>5</td>
</tr>
<tr>
<td>Cost Engineering</td>
<td>$250,000</td>
<td>1</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>Design-Build</td>
<td>$180,000</td>
<td>1</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>Electrical</td>
<td>$475,000</td>
<td>7</td>
<td>5</td>
<td>7</td>
</tr>
<tr>
<td>Geotechnical</td>
<td>$60,000</td>
<td>1</td>
<td></td>
<td>4</td>
</tr>
<tr>
<td>Mechanical</td>
<td>$580,000</td>
<td>5</td>
<td>2</td>
<td>15</td>
</tr>
<tr>
<td>Medical</td>
<td>$0</td>
<td>2</td>
<td></td>
<td>3</td>
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<tr>
<td>Security</td>
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<td>1</td>
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<tr>
<td>Specifications</td>
<td>$200,000</td>
<td>4</td>
<td>1</td>
<td>3</td>
</tr>
<tr>
<td>Structural</td>
<td>$80,000</td>
<td>1</td>
<td></td>
<td>5</td>
</tr>
<tr>
<td>Sustainability</td>
<td>$0</td>
<td>1</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>Waterfront</td>
<td>$190,000</td>
<td>3</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td><strong>Grand Total</strong></td>
<td><strong>$3,988,000</strong></td>
<td><strong>40</strong></td>
<td><strong>16</strong></td>
<td><strong>91</strong></td>
</tr>
</tbody>
</table>

Table 3-1
FY 2019 Funding Allocation for Approved Projects by DWG

Table 3-2
FY 2019 Criteria Projects—Estimated Cost by DWG
4 UNIFIED FACILITIES CRITERIA (UFC)

4.1 Introduction

UFC and Facility Criteria (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).

![DoD Facilities Criteria Strategy](image.png)

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 2018, 100% of the 27 core UFC were current and unified.

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Total #</td>
<td>361</td>
<td>260</td>
<td>199</td>
<td>201</td>
<td>162</td>
<td>158</td>
</tr>
<tr>
<td>UFC &amp; FC</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>% Unified</td>
<td>9%</td>
<td>40%</td>
<td>71%</td>
<td>71%</td>
<td>78%</td>
<td>80%</td>
</tr>
<tr>
<td>% Current</td>
<td>N/A</td>
<td>N/A</td>
<td>48%</td>
<td>44%</td>
<td>57%</td>
<td>60%</td>
</tr>
</tbody>
</table>

Table 4-1
UFC Health Metrics – All UFC

A UFC or FC is considered “current” when their 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.
Document Health Index $= \text{HI}_{\text{DOC}} = (\text{Current Date} - \text{Document Publication Date})_{\text{yrs}} (\text{Refresh Rate})_{\text{yrs}}$

Equation 4-1
Document Health Index

4.4 FY 2018 UFC Publications

In FY 2018, 24 new or revised UFC were published:

UFC 3-400-02 Design: Engineering Weather Data
UFC 3-230-01 Water Storage, Distribution, and Transmission
UFC 4-711-01 Family Housing
UFC 3-410-02 Direct Digital Control for HVAC and Other Building Control Systems
UFC 3-470-01 Utility Monitoring and Control System (UMCS) Front End and Integration
UFC 1-300-01 Criteria Format Standard
UFC 3-310-08 Non-Expeditionary Bridge Insp, Maintenance and Repair
UFC 3-260-04 Airfield and Heliport Marking
UFC 3-260-17 Operation and Maintenance Manual: Dust Control for Roads...
UFC 3-535-02 Design Drawings for Visual Air Navigation Facilities
UFC 3-701-01 DoD Facilities Pricing Guide
UFC 3-490-06 Design: Elevators
UFC 3-120-10 Interior Design
UFC 3-410-04N Industrial Ventilation
UFC 4-214-03 Central Vehicle Wash Facilities
UFC 3-201-01 Civil Engineering
UFC 3-540-07 Operation and Maintenance: Generators
UFC 3-270-01 Asphalt and Concrete Pavement Maintenance and Repair
UFC 4-023-03 Design of Buildings to Resist Progressive Collapse
UFC 3-460-03 Operation and Maintenance: Maintenance of Petroleum Systems
UFC 3-540-01 Engine-Driven Generator System for Backup Power
UFC 3-535-01 Operations and Maintenance: Electrical Safety

4.5 FY 2019 UFC Projects

Architecture
UFC 3-101-01 Architecture
UFC 4-610-01 Administrative Facilities

Civil
UFC 3-230-03 Water Treatment

Cost
UFC 3-730-01 Programming Cost Estimates for Military Construction
**Electrical**  
UFC 3-501-01 Electrical Engineering  
UFC 3-520-01 Interior Electrical Systems  
UFC 3-530-01 Design: Interior and Exterior Lighting and Controls  
UFC 3-550-01 Exterior Electrical Power Distribution  
UFC 3-560-01 Operations and Maintenance: Electrical Safety

**Mechanical**  
UFC 3-410-02 LONWorks(r) Direct Digital Control for HVAC and Other Local Building Systems  
UFC 3-430-09 Exterior Mechanical Utility Distribution

**Security**  
UFC 4-021-02 Electronic Security Systems

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

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

**Waterfront**  
UFC 4-151-10 General Criteria for Waterfront Construction  
UFC 4-159-03 Design: 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.
5.4 FY 2018 New and Revised UFGS

In FY 2018, 74 new and revised and 159 changed UFGS were released. A complete listing of UFGS can be found at: [http://www.wbdg.org/ccb/browse_cat.php?c=3](http://www.wbdg.org/ccb/browse_cat.php?c=3)

5.5 FY 2019 UFGS Projects

**Architecture**
UFGS 13 34 19: Metal Building Systems

*Bundle*—various light weight concrete UFGS:
  - UFGS 03 52 00: Lightweight Concrete Roof Insulation
  - UFGS 03 52 16: Lightweight Insulation Concrete
  - UFGS 03 52 16.19: Lightweight Insulation Concrete Overlay
Bundle—various waterproofing/insulation UFGS:
- UFGS 07 11 13: Bituminous Damp proofing
- UFGS 07 14 00: Fluid-Applied Waterproofing
- UFGS 07 16 19: Metallic Oxide Waterproofing
- UFGS 07 19 00: Water Repellents
- UFGS 07 21 16: Mineral Fiber Blanket Insulation
- UFGS 07 21 23: Loose Fill Thermal Insulation
- UFGS 07 24 00: Exterior Insulation and Finish Systems

Bundle—various door UFGS:
- UFGS 08 11 69: Metal Storm Doors
- UFGS 08 11 73: Sliding Fire Doors
- UFGS 08 32 13: Aluminum Sliding Glass Doors
- UFGS 08 34 19.10 20: Rolling Service [and Fire] Doors
- UFGS 08 36 13: Sectional Overhead Door
- UFGS 08 36 19: Vertical Lift Doors

Bundle—various roofing/roofing material UFGS:
- UFGS 07 31 26: Slate Shingles
- UFGS 07 32 13: Roof Tiles
- UFGS 07 32 14: Clay Tile Roofing Replacement or Repair
- UFGS 07 41 13: Metal Roof Panels
- UFGS 07 41 13.16: Copper Roof Panels
- UFGS 07 41 63: Fabricated Roof Panel Assemblies
- UFGS 07 42 13: Metal Wall Panels
- UFGS 07 42 63: Fabricated Wall Panel Assemblies
- UFGS 07 51 13: Built-Up Asphalt Roofing
- UFGS 07 52 00: Modified Bituminous Membrane Roofing
- UFGS 07 53 23: Ethylene-Propylene-Diene-Monomer Roofing
- UFGS 07 55 00: Protected Membrane Roofing (PMR)
- UFGS 07 57 13: Sprayed Polyurethane Foam (SPF) Roofing
- UFGS 07 62 13: Copper Sheet Metal Flashing and Trim

Bundle—various fuel resistive floor coating UFGS:
- UFGS 09 67 23.15: Fuel Resistive Resinous Flooring, 3-Coat System
- UFGS 09 67 23.16: Fuel Resistive Resinous Flooring, 5-Coat System

Bundle—various window UFGS:
- UFGS 08 51 23: Steel Windows
- UFGS 08 51 69.10: Aluminum Storm Windows
- UFGS 08 52 00: Wood Windows
- UFGS 08 53 00: Plastic Windows
- UFGS 08 56 53: Blast Resistant Tempered Glass Windows
- UFGS 08 60 45: Skylights and Translucent Panels
- UFGS 08 91 00: Metal Wall and Door Louvers

Bundle—various coating system UFGS:
- UFGS 09 96 00: High-Performance Coatings
- UFGS 09 96 59: High-Build Glaze Coatings
- UFGS 09 97 10.00 10: Metallic Coatings for Hydraulic Structures
- UFGS 09 97 13.16: Interior Coating of Welded Steel Water Tanks
- UFGS 09 97 13.17: Three Coat Epoxy Interior Coating of Welded Steel Petroleum Fuel Tanks
- UFGS 09 97 13.25: Maintenance, Repair, and Coating of Tall Antenna Towers
- UFGS 09 97 23.13: Interior Lining for Concrete Storage Tanks (For Petroleum Fuels)
- UFGS 09 97 23.16: Linseed Oil Protection of Concrete Surfaces
Aviation
UFGS 08 34 16.20: Vertical Lift Fabric Doors

Civil
*Bundle—various water & waste water treatment UFGS:*
  - UFGS 02 51 13: Precipitation/Coagulation/Flocculation Water Treatment
  - UFGS 46 20 20: Sewage Bar Screen and Mechanical Shredder
  - UFGS 46 24 16: Comminutors
  - UFGS 46 51 00.00 10: Air and Gas Diffusion Equipment
  - UFGS 46 53 62: Continuous Loop Reactor Wastewater Treatment System

Design-Build
NAVFAC Design-Build Template Updates—Division 1 U

Electrical
UFGS 27 41 00: Audio-Visual Systems

*Bundle—various cathodic protection UFGS:*
  - UFGS 26 42 14.00 10: Cathodic Protection System (Sacrificial Anode)
  - UFGS 26 42 13.00 20: Cathodic Protection by Galvanic Anodes
  - UFGS 26 42 19.00 20: Cathodic Protection by Impressed Current
  - UFGS 26 42 17.00 10: Cathodic Protection System (Impressed Current)
  - UFGS 26 42 22.00 20: Cathodic Protection System for Steel Water Tanks
  - UFGS 26 42 15.00 10: Cathodic Protection System (Steel Water Tanks)

Geotechnical
*Bundle—various UFGS:*
  - UFGS 31 23 00.00 20: Excavation and Fill
  - UFGS 31 36 00: Wire Mesh Gabions and Mattresses
  - UFGS 31 60 00: Foundation Preparation

Mechanical
UFGS 25 10 10: Utility Monitoring and Control System (UMCS) Front End and Integration
UFC 3-430-09: Exterior Mechanical Utility Distribution

*Bundle:*
  - UFGS 23 09 23.01: Lonworks Direct Digital Control for HVAC and Other Local Building Systems
  - UFGS 23 09 00: Instrumentation and Control for HVAC
  - UFGS 23 09 13: Instrumentation and Control Devices for HVAC
  - UFGS 23 09 93: Sequences of Operation for HVAC Control
  - UFGS 25 08 10: Utility Monitoring and Control System Testing

*Bundle:*
  - UFGS 23 57 10.00 10: Forced Hot Water Heating Systems Using Water and Steam Heat Exchangers
  - UFGS 23 21 13.00 20 Low Temp Water (LTW) Heating Systems and UFGS 23 21 13.23 20
Bundle–various crane UFGS:
- UFGS 41 22 13.14: Bridge Cranes, Overhead Electric, Top Running
- UFGS 41 22 13.15: Bridge Cranes, Overhead Electric, Under Running
- UFGS 41 22 13.16: Gantry Cranes
- UFGS 41 22 23.19: Monorails Hoists

Medical
UFGS 26 55 80.00 20: Surgical Lighting Fixtures

Bundle–various nurse call system UFGS:
- UFGS 27 52 24: Nurse Call System
- UFGS 27 52 23.00 20: Nurse Call System

Specifications
UFGS 00 22 13.00 20: Supplementary Instructions to Offerors
UFGS 01 45 00.00 20: Quality Control
UFGS 01 45 00.10 20: Quality Control for Minor Construction

Structural
Bundle–various concrete UFGS:
- UFGS 03 33 00: Cast-In-Place Architectural Concrete
- UFGS 03 37 00: Preplaced-Aggregate Concrete
- UFGS 03 37 23: Roller-Compacted Concrete for Mass Concrete Construction
- UFGS 03 37 29: Concrete for Concrete Cutoff Walls
- UFGS 03 70 00: Mass Concrete

Waterfront
UFC 4-151-10: General Criteria for Waterfront Construction
UFC 4-159-03: Design: Moorings

Bundle–various marine fender UFGS:
- UFGS 35 59 13.16: Marine Fenders
- UFGS 35 59 13.19: Arch-Type Rubber Marine Fenders
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 Table 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.’
**Figure 6-1**
CCR Status FY 2010 - FY 2018