

DoD UNIFIED FACILITIES CRITERIA PROGRAM

FY 2022 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 (UFC) 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, Facility Criteria (FC), and Unified Facilities Guide Specifications (UFGSs) are technical criteria documents and specifications used for planning, design, construction, and maintenance of all DoD facility projects. Highlights and accomplishments for FY 2022 include:

- Achieved a 74% unification rate for all UFC documents and 73% unification rate for all UFGSs;
- Published 12 new or revised UFCs;
- Published 55 new or revised UFGSs; and
- Managed over 1,200 Criteria Change Requests (CCRs) submitted in FY 2022.

In addition to criteria document improvements, the program provides technical expertise and guidance on many key DoD issues. Major highlights and accomplishments in FY 2022 include:

- Continued to receive increased resourcing in order to reduce the backlog of overdue documents. The program received increased military resilience funding focusing on climate change resilience.
- Developed and implemented quarterly reports with program metrics. These reports provide a graphic update of program status for each of the 23 Discipline Working Groups (DWGs). Conducted executive briefs with all 23 DWGs on status of reports and issues of concern.
- Published an updated UFC 1-200-01 DoD Building Code that integrates the DoD building code with the International Building Code and the International Existing Building Code.
- Published an updated UFC 1-300-01 Criteria Format Standard that provides a new UFC template.
- Began implementing the transfer of SpecsIntact from NASA to DoD, reflecting NASA's decision to end its support of SpecsIntact and exit the program by the end FY 2023.
- Reviewed multiple provisions in the FY 2022 National Defense Authorization Act (NDAA) requiring changes to the UFC Program.
- Made progress on removing fluorinated aqueous film-forming foam (AFFF) fire suppression systems from military facilities, as required by the 2020 NDAA.
- Engaged in the preparation of plans to determine if a facility is an Exceptionally High-Risk Building (EHR) in terms of seismic safety.

- Completed contractual arrangements for DoD to supply field offices with non-government criteria and standards to the relevant Military Departments.
- Conducted an in-person DWG Training Workshop to provide better program alignment and direction across DWGs to improve consistency and efficiencies.
- Upgraded CMS online with new staging web environment.
- Significantly increased funding commitment for the FY 2023 program.

2 PROGRAM OVERVIEW

2.1 Program Authority

Figure 2-1 shows the Unified Facilities Criteria (UFC) program background and authorities. 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 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 UFC 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.

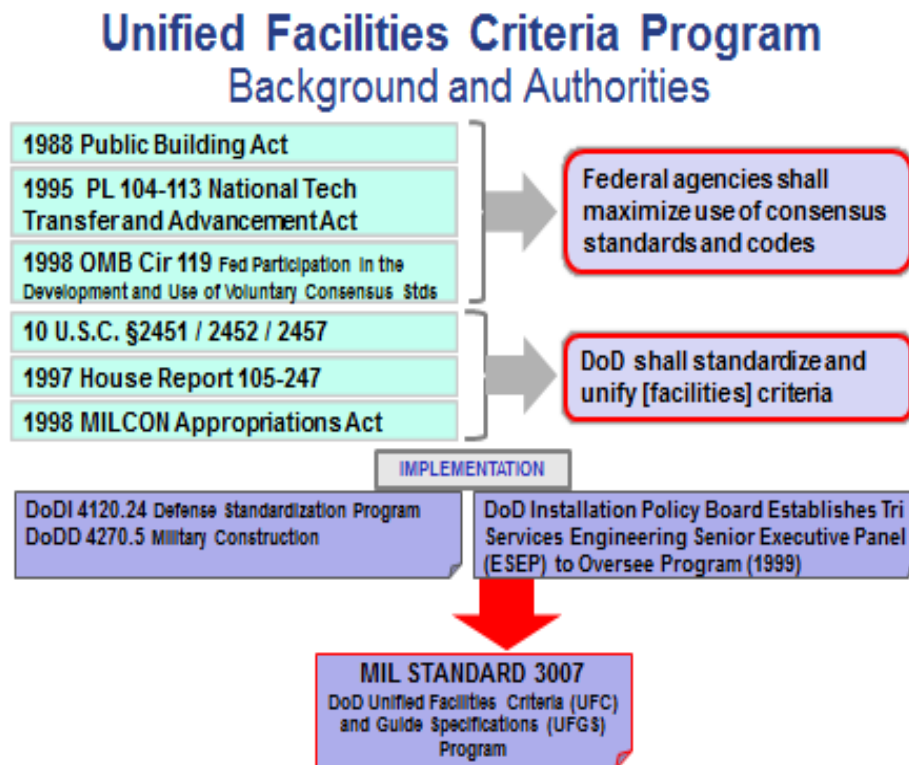
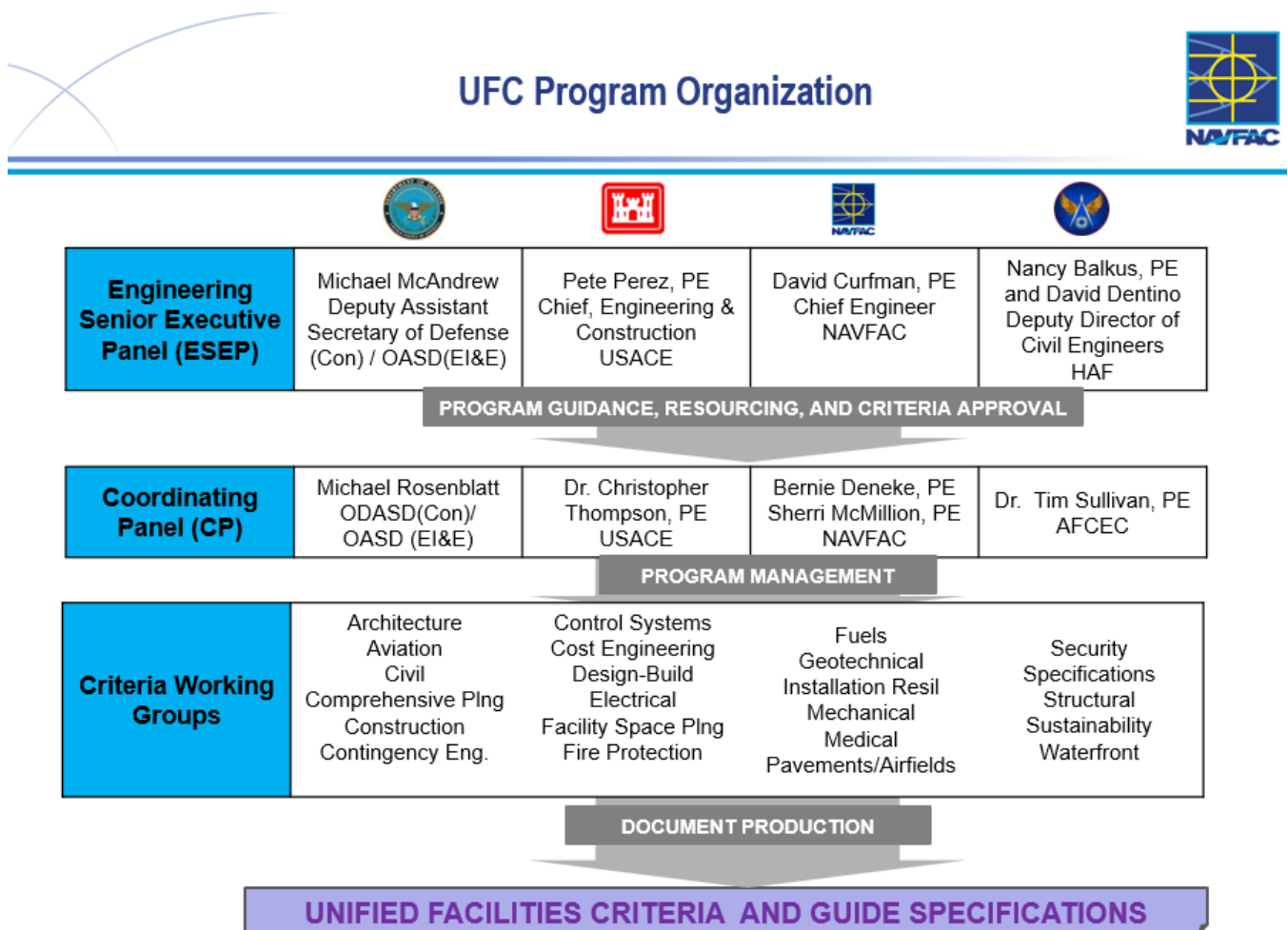


Figure 2-1
UFC Program Background and Authorities

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. Membership and structure are shown in Figure 2-2.

- ESEP Chair–David Curfman, Naval Facilities Engineering Systems Command;
- CP Chair–Christopher Thompson, U.S. Army Corps of Engineers; and
- 23 Discipline and 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 Systems Command (NAVFAC), Air Force Civil Engineer Center (AFCEC), and the Office of the Secretary of Defense (OSD) to participate on the CP and the 23 Discipline and Functional Working Groups. The working groups are responsible for development and maintenance of the criteria documents by in-house staff or through 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 support 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 2019	FY 2020	FY 2021	FY 2022
USACE	\$1,321,000	\$1,321,000	\$1,300,000	\$1,772,000
NAVFAC	\$1,262,000	\$1,383,000	\$1,951,540	\$2,472,500
AFCEC	\$1,282,000	\$1,215,000	\$3,900,000	\$2,235,000
OSD	\$460,000	\$379,000	\$0	\$4,788,000
Total	\$4,325,000	\$4,298,000	\$7,151,540	\$11,267,500

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.

Though the costs have been steady over the history of the program, increases in FY 2022 are the result of (a) appropriated Climate and Resiliency Planning and Design funding from each service, (b) a programmatic shift initiated by the CP and approved by the ESEP to increase funding commitments to address overdue documents, and (c) funding provided by the DoD to address targeted initiatives including Area Cost Factors, non-government standards, and upgrades to both the WBDG and SpecsIntact. The breakout of FY 2022 costs is shown in Table 2-2.

SpecsIntact	\$380,000
SpecsIntact/Windows® Compatibility (update)	0
NIBS/WBDG	\$604,000
Non-Government Standards/IHS Support	\$3,100,000
UFC and UFGS Program Administration	\$139,000
DoD Area Cost Factor Survey	\$565,000
TOTAL	\$4,788,000

**Table 2-2
Criteria Access and Distribution—FY 2022 Funding**

3 KEY HIGHLIGHTS AND ACCOMPLISHMENTS

3.1 UFC/UFGS Highlights

For FY 2022, the UFC program achieved 74% unification rate for all UFC and 73% for all UFGS documents up from 9% in 1998 (baseline year). The program continued to sustain 100% unification rate for all core UFC documents. Core UFCs that are not current have ongoing projects to revise those documents.

The program published 12 new or revised UFCs and 55 new or revised UFGSs. The CP continued the process of developing core UFGSs similar to the core UFCs and continued bundling of UFGSs for more cost-effective and efficient updates. Program health indices were again improved by removing inactive and archived UFCs from the active document inventory.

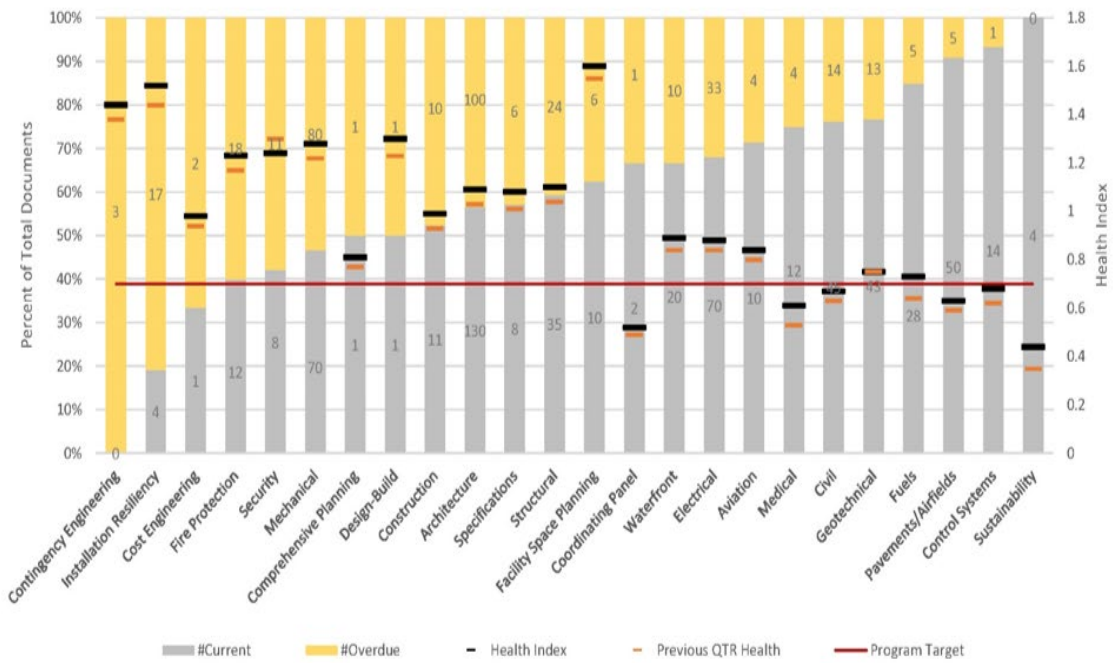
3.2 Upgrading UFC Program Resourcing

Throughout FY 2022, the UFC Program continued to receive increased resourcing funding and hiring in order to reduce the backlog of overdue documents. Program funding increased 57.6% from FY 2021 to \$11.3 million. The CP and ESEP continued to take advantage of increased funding, including resilience funding. Plans are in place to continue the UFC program at an elevated level for FY 2023 in response to the plan developed by the CP in FY 2021.

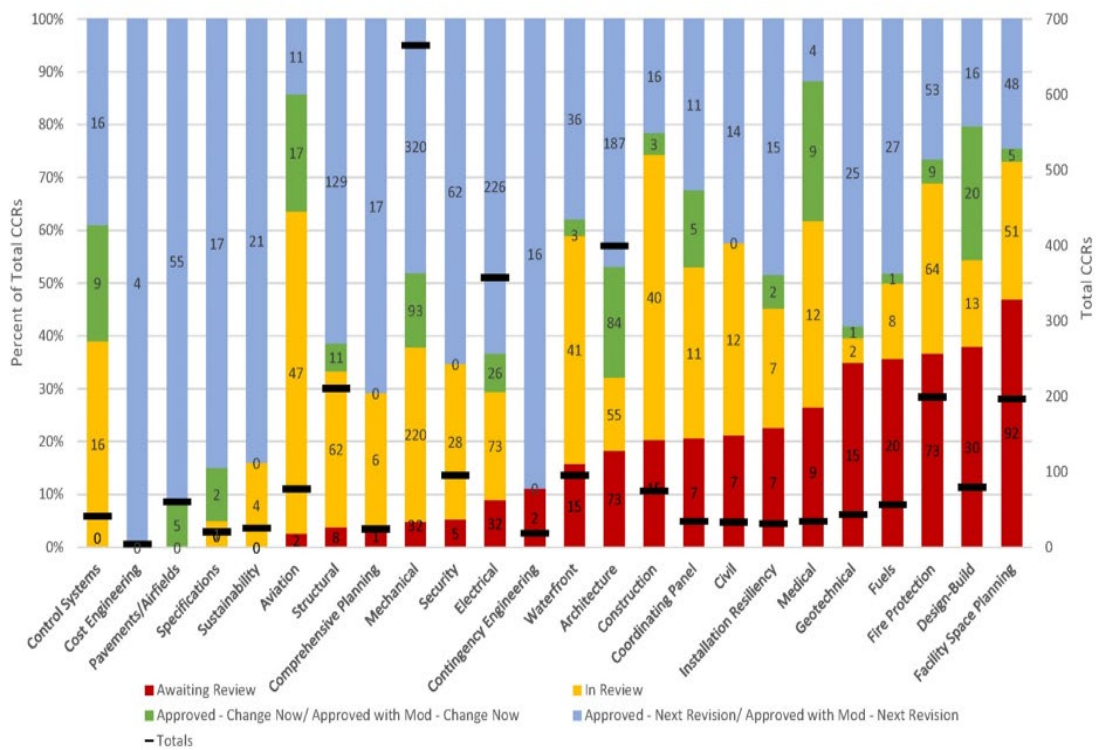
3.3 Discipline Working Group Quarterly Reports and Executive Briefings

DWG quarterly reports were implemented in FY 2022 to provide CP and the DWGs with a comprehensive and comparative real-time look at DWG health. The first report, shown in Table 3-1, details on one page the health of each DWG showing number of current and overdue documents with the health score noted for both current and previous. The second report, shown in Table 3-2, details criteria change requests (CCRs) for each DWG showing total number of CCRs, the percentages awaiting review, in review, approved for next document change or for next document revision.

During FY 2022, the CP met with every DWG in executive briefing sessions. These sessions kept the CP and ESEP apprised of the workload status of the UFC program by identifying DWG goals and challenges, evaluating program metrics, and helping to solve problems and achieve priority goals.



**Table 3-1
DWG Document Health**



**Table 3-2
CCR Summary**

3.4 UFC 1-200-01 DoD Building Code

DoD published an update to UFC 1-200-01 DoD Building Code. This UFC represents the foundational document of the UFC program in providing 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. This current version of 1-200-01 integrates the DoD building code with the International Building Code and the International Existing Building Code. Other International Code Council (ICC) codes are being adopted selectively by DWGs. The CP strategy is to move to greater use of the ICC family of codes.

3.5 UFC 1-300-01 Criteria Format Standard

An update to UFC 1-300-01 Criteria Format Standard was published in FY 2022. This UFC provides a new template for UFCs in terms of appearance, formatting and content.

3.6 SpecsIntact Transition

NASA decided to end its support of SpecsIntact by the end of FY 2023. SpecsIntact is a mature automated system for preparing standardized facility construction specifications used worldwide by DoD and NASA. NASA has provided SpecsIntact's development and operational support, with shared funding by DoD. In FY 2022, DoD began implementing the transfer of SpecsIntact from NASA to DoD. By the close of the fiscal year, the U.S. Army Engineering and Support Center, Huntsville agreed to assume managerial control of SpecsIntact and began the transition process, including contracting, cybersecurity, resourcing, and staffing.

3.7 National Defense Authorization Act Requirements

The FY 2022 National Defense Authorization Act (NDAA) required changes to the UFC program relating to flood risk management, master planning cooperation with state and local governments, inclusion of nursing and lactation spaces, revision regarding variable refrigerant flow systems, improving energy resilience through consideration of microgrids, adopting model energy codes, requiring fire extinguishers in DoD facilities, and modifying criteria where required.

3.8 Transition from AFFF in Facilities

During FY 2022, the UFC program made significant progress toward removing fluorinated aqueous film-forming foam (AFFF) fire suppression systems from military

facilities. Changes to UFC 4-211-01 Aircraft Maintenance Hangars were made to address the Air Force AFFF Sundown Policy.

3.9 Seismic Safety Program/Exceptionally High-Risk Facilities

Two executive orders require all federal agencies to identify Exceptionally High-Risk (EHR) facilities and put into effect plans to mitigate such risks. To ensure compliance, agencies are directed to designate a Seismic Safety Coordinator. During FY 2022, DoD implemented most aspects of the executive orders and began developing plans to actively identify EHR buildings in the coming year.

3.10 Non-Government Standards

DoD maintains a contract to supply field offices with non-government criteria and standards to the relevant Military Departments. The existing contract continued to provide access to these standards in FY 2022.

3.11 DWG Training Workshop

The DWG Training Workshop took place on 24-25 May 2022 at USACE HQ. Seventy-one people attended the workshop, the purpose of which was to create a collaboration-opportunity for the DWGs to prepare to execute the FY 2023 program. Each DWG identified top priorities including finishing projects and planning to address aging criteria. Successes were cited as publication of challenging or long-duration UFCs and UFGSs. Upcoming challenges included lack of resources, especially personnel vs. workload, resolving CCRs, responding to NDAA, and navigating boundaries between DWG responsibilities.

3.12 CMS Enhancements

The Criteria Management System (CMS) was upgraded with a new staging web environment including a new cluster of servers with enhanced security firewall, encrypted rest-in-place data storage, and cybersecurity applications. A Module Waiver structure was also put in place.

3.13 Project Prioritization for FY 2023

During FY 2022, the CP conducted an in-depth project prioritization for FY 2023 UFC and UFGS projects. DWGs were notified with a call for projects, and input was received from 21 DWGs. DWGs submitted 90 project proposals requesting \$13.9 million; 81 were funded at FY 2023 cost of \$9.1 million of which \$4.2 million qualified for resilience

funding. Figure 3.1 shows funding committed by Service, and Figure 3.2 shows funding committed by DWG.

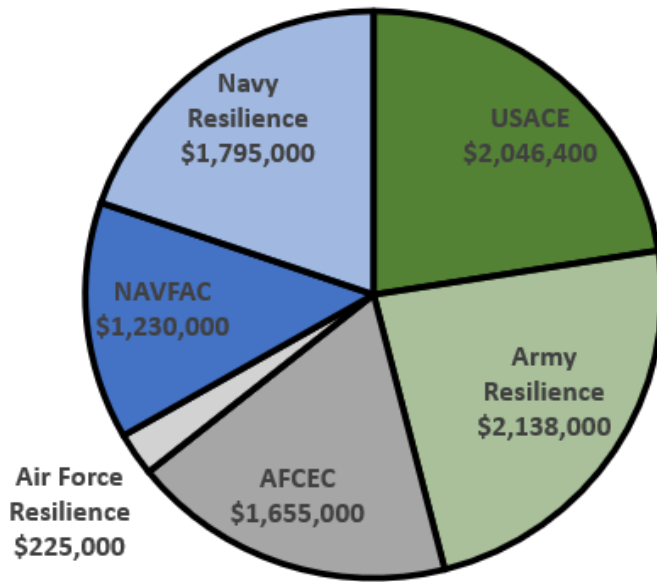


Figure 3-1
\$9.1 Million FY 2023 Funding Commitment by Service

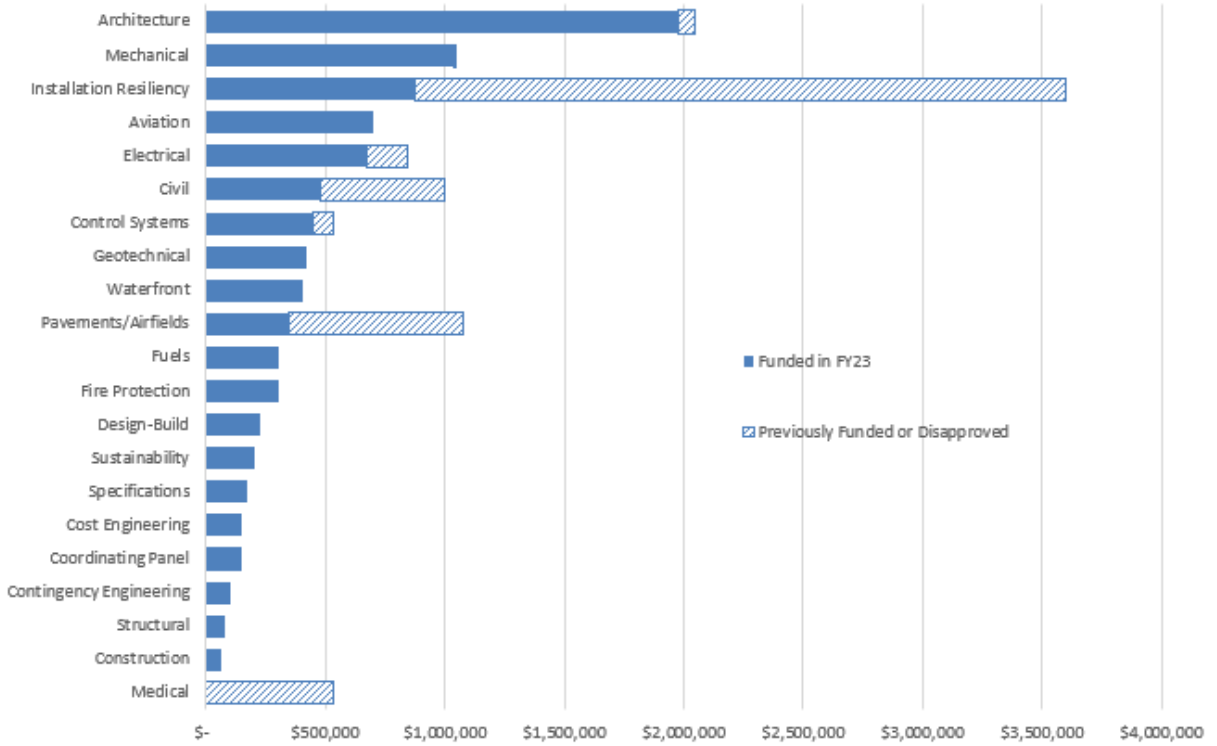


Table 3-2
FY 2023 Funding Commitment by DWG

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. These documents define design requirements and best practices for DoD construction projects. A smaller percentage of UFCs 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 DoD Building Code implements the International Building Code, International Existing Building Code, and other consensus codes and standards. UFC 1-200-01 also references 28 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

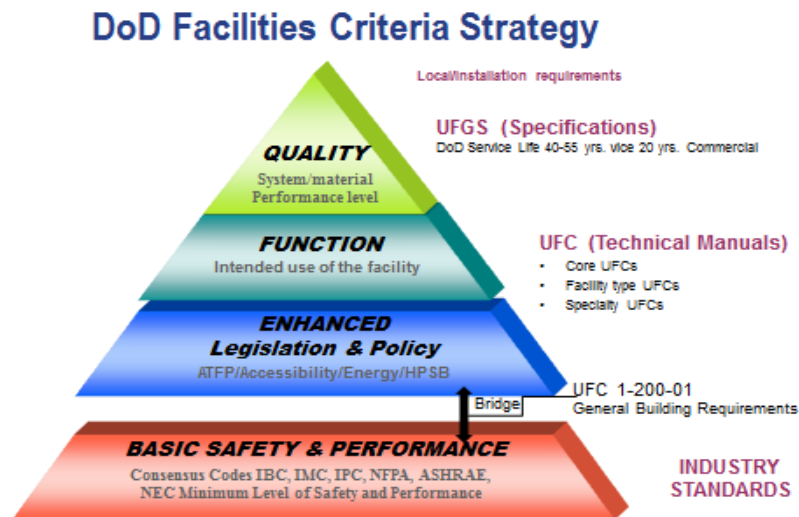


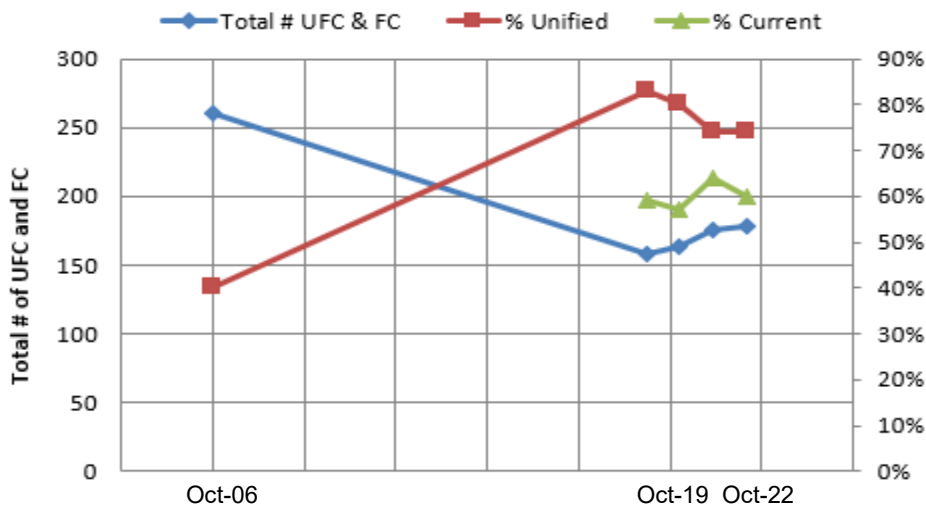
Figure 4-1
DoD Facilities Criteria Strategy

(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 illustrates this DoD facilities criteria strategy.

4.3 Health Metrics

Table 4.1 shows the primary indicators of UFC health: “% 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 updated on an interim basis by incorporating minor changes and publishing as a “Change” or restored to a current status by incorporating major changes as a “Revision.” A “Revision” improves program health metrics while a “Change” does not.

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.”



	Oct-98	Oct-06	Oct-19	Oct-20	Oct-21	Oct-22
Total # UFC & FC	361	260	158	164	176	178
% Unified	9%	40%	83%	80%	74%	74%
% Current	N/A	N/A	59%	57%	64%	60%

Table 4-1
UFC Health Metrics

A UFC or FC is considered “current” when its individual health index is less than one. 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 one, the document is considered to be up to date and current. If a document health index is greater than one, 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 one 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 2022 UFC Publications

In FY 2022, 12 new or revised UFC were published:

- UFC 3-420-02FA Compressed Air
- UFC 1-200-01 DoD Building Code
- UFC 4-141-10N Design: Aviation Operation and Support Facilities
- UFC 4-150-07 Maintenance and Operation: Maintenance of Waterfront Facilities
- UFC 4-860-03 Railroad Track Maintenance and Safety Standards
- FC 4-721-10N Navy and Marine Corps Unaccompanied Housing
- UFC 2-100-01 Installation Master Planning
- UFC 3-701-01 DoD Facilities Pricing Guide
- UFC 1-201-01 Non-Permanent DoD Facilities in Support of Military Operations
- UFC 3-220-01 Geotechnical Engineering
- UFC 1-300-01 Criteria Format Standard
- UFC 3-220-10 Soil Mechanics

4.5 FY 2023 UFC Projects

The following UFCs comprise the funded and approved projects for FY 2023.

Architecture

- UFC 3-110-03 Roofing
- UFC 1-200-03 Off-Site & Modular Construction
- UFC TBD Tension Fabric Structures
- UFC 4-440-01 Warehouses and Storage Facilities
- UFC 4-200-01 Maintenance and Production Facilities
- UFC 4-720-01 Lodging Facilities

Aviation

- UFC 3-260-01 Airfield and Heliport Planning and Design
- UFC 4-211-01 Aircraft Maintenance Hangars

Civil Engineering

- UFC TBD Develop Resilient Natural Infrastructure (NI) UFC
- UFC TBD Develop Wastewater Reuse Criteria
- UFC 4-860-02 Ground Portal Crane Trackage

Contingency Engineering

- UFC 1-201-02 Assessment of Existing Facilities for Use in Military Operations

Control Systems

- UFC 4-010-06 Cybersecurity of Facility-Related Control Systems
- UFC 3-470-01 Utility Monitoring and Control System (UMCS) Front End and Integration
- UFC 3-410-02 Direct Digital Control for HVAC and Other Building Control Systems
- UFC 3-410-01 Heating, Ventilating and Air Conditioning
- UFC 3-470-01 Utility Monitoring and Control System (UMCS) Front End and Integration

Coordinating Panel

- UFC 1-300-09N Navy and Marine Corps Design Procedures

Cost Engineering

- UFC 3-730-01 Programming Cost Estimates for Military Construction

Design-Build

- UFC 1-100-05 Navy Design Build Template

Electrical

- UFC 3-501-01 Electrical Engineering
- UFC 3-520-01 Interior Electrical Systems
- UFC 3-550-01 Exterior Electrical Power Distribution
- UFC 3-520-05 Stationary Battery Areas

Fire Protection Engineering

- UFC 3-600-01 Fire Protection Engineering for Facilities with Change 1 - 6

Fuels

- UFC 3-460-03 O&M: Maintenance of Petroleum Systems

Installation Resiliency

- UFC TBD Develop Electric Vehicle Supply Equipment (EVSE) UFC
- UFC TBD Criteria Knowledge Base
- UFC 3-550-05 Installation Electrochemical Energy Storage Systems
- UFC TBD Resiliency & Smart Building Design
- UFC TBD Critical Facility Resiliency Performance Assessments & Criteria Updates

Mechanical Engineering

- FC 3-410-01 Heating, Ventilating and Air Conditioning
- UFC TBD HVAC Operations and Maintenance
- Guidelines for HVAC Equipment Operation-On Going Commissioning. Affects UFC 3-410-02 DDC

Pavements/Airfields

- UFC 3-250-04 Standard Practice for Concrete Pavement Construction

Sustainability

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

Waterfront

- UFC 4-159-01 Hyperbaric Facilities.
- UFC 4-213-10 Graving Dry Docks
- UFC 4-159-03 Moorings

5 UNIFIED FACILITIES GUIDE SPECIFICATIONS (UFGSS)

5.1 Introduction

UFGSSs are technical master guide specifications used in construction projects. UFGSSs reference industry-consensus test and material standards and are mostly prescriptive in nature. UFGSSs 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 UFGS Format Standard:

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

UFGSSs provide the level of quality and performance to provide best life-cycle cost sustainment for DoD facilities over a 45-55-year service life. UFGSSs 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 identifying core UFGSSs similar to the core UFCs and continued bundling of UFGSSs for more cost-effective and efficient updates.

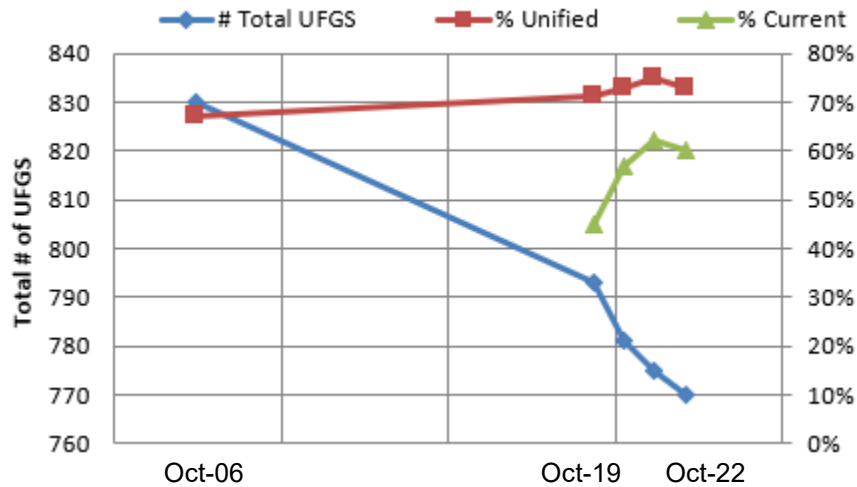
5.3 Health Metrics

Figure 5-1 shows the primary indicators of UFGS health: “% Unified” and “% Current.” % Unified represents the percentage of total UFGSSs used by all three Military Departments that are unified and indicates progress toward reducing duplicate criteria. % Current represents the percentage of all UFGSSs 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.”

UFGSs are considered “current” when their individual health index is less than one. 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-06	Oct-19	Oct-20	Oct-21	Oct-22
# Total UFGS	830	793	781	775	770
% Unified	67%	71%	73%	75%	73%
% Current	N/A	45%	57%	62%	60%

Table 5-1
UFGS Health Metrics

5.4 FY 2022 New and Revised UFGS

In FY 2022, 55 new or revised UFGS were published. A complete listing of UFGS can be found at: <https://www.wbdg.org/ffc/dod/unified-facilities-guide-specifications-ufgs>

5.5 FY 2023 UFGS Projects

The following UFGS comprise the funded and approved projects for FY 2023.

Architecture

- UFGS 07 51 13 Built-Up Asphalt Roofing
- UFGS 07 12 00 Built-Up Bituminous Waterproofing
- UFGS 07 13 53 Elastomeric Sheet Waterproofing
- UFGS 07 17 00 Bentonite Waterproofing
- UFGS 07 31 13 Asphalt Shingles
- 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 42 13 Metal Wall Panels
- UFGS 07 42 63 Fabricated Wall Panel Assemblies
- UFGS 07 52 00 Modified Bituminous Membrane Roofing
- UFGS 07 53 23 Ethylene-Propylene-Diene-Monomer Roofing
- UFGS 07 54 13 Thermoplastic-Polyolefin (TPO) Roofing
- UFGS 07 55 00 Protected Membrane Roofing (PMR)
- UFGS 07 56 00 Fluid Applied Roof
- UFGS 07 56 00.60 Mesh Reinforced Elastomeric Coating
- UFGS 07 57 13 Sprayed Polyurethane Foam (SPF) Roofing
- UFGS 07 61 14.00 20 Steel Standing Seam Roofing
- UFGS 07 61 15.00 20 Aluminum Standing Seam Roofing
- UFGS 07 62 13 Copper Sheet Metal Flashing and Trim
- UFGS 13 31 23 Tensioned Fabric Structures
- UFGS 08 11 16 Aluminum Doors and Frames
- UFGS 08 01 52 Operation and Maintenance of Wood Windows
- UFGS 08 14 00 Wood Doors
- UFGS 08 31 00 Access Doors and Panels
- UFGS 08 41 13 Aluminum-Framed Entrances and Storefronts
- UFGS 08 44 00 Curtain Wall and Glazed Assemblies
- UFGS 08 71 00 Door Hardware
- UFGS TBD Blast Resistant Doors for Navy Magazines

Civil Engineering

- UFGS 46 25 14 Coalescing [or Vertical Tube] Oil-Water Separators
- UFGS 34 11 00 Railroad Track and Accessories
- UFGS 46 71 16 Gravity Belt Thickeners
- UFGS 10 14 53 Traffic Signage

Construction

- UFGS 01 35 26 Governmental Safety Requirements

Control Systems

- UFGS 23 09 00 Instrumentation and Control for HVAC
- UFGS 23 09 23.01 Lonworks Direct Digital Control for HVAC and Other Local Building System

- UFGS 23 09 23.02 BACnet Direct Digital Control Systems for HVAC and Other Building Control Systems
- UFGS 23 09 53.00 20 Space Temperature Control Systems
- UFGS 25 10 10 Utility Monitoring and Control System (UMCS) Front End and Integration

Electrical

- UFGS 26 13 02 Pad-Mounted Solid Dielectric Switchgear
- UFGS 26 23 00 Low Voltage Switchgear
- UFGS 26 13 01 Pad-Mounted Dead-Front Air Insulated Switchgear

Geotechnical

- UFGS 02 51 19 Solidification and Stabilization Decontamination
- UFGS 02 53 13 Remediation of Contaminated Soils and Sludges by Incineration
- UFGS 02 53 16.13 Remediation of Contaminated Soils by Thermal Desorption
- UFGS 02 54 19.13 Bioremediation Using Landfarming
- UFGS 02 54 19.16 Bioremediation of Soils Using Windrow Composting
- UFGS 02 54 23 Soil Washing Through Separation/Solubilization
- UFGS 02 56 13.13 Geomembrane Waste Containment
- UFGS 02 56 13.16 Clay Waste Containment
- UFGS 02 56 13.19 Geosynthetic Clay Liner Waste Containment
- UFGS 02 61 13 Excavation and Handling of Contaminated Material
- UFGS 02 61 23 Removal and Disposal of PCB Contaminated Soils
- UFGS 02 66 13 Select Fill and Topsoil for Landfill Cover
- UFGS TBD Foundation Grouting Spec

Installation Resiliency

- UFGS 33 61 13 Pre-Engineered Underground Heat Distribution System
- UFGS 33 60 02 Aboveground Heat Distribution System
- UFGS 26 10 16 Microgrid Commissioning
- UFGS 26 19 13 Medium-Voltage Electrochemical Energy Storage Systems

Mechanical

- UFGS 23 82 00 Terminal Heating Units
- UFGS 23 82 00.00 20 Terminal Heating Units
- UFGS 23 83 00.00 20 Electric Space Heating Equipment
- UFGS 23 80 20.00 10 Gas-Fired Heating System Equipment
- UFGS 23 30 00 HVAC Air Distribution
- UFGS 23 81 47 Water-Loop and Ground-Loop Heat Pump Systems
- UFGS 33 63 13 Exterior Underground Steam Distribution System
- UFGS 23 05 48.19 [Seismic] Bracing for HVAC
- UFGS 22 05 48.00 20 Mechanical Sound, Vibration and Seismic Control
- UFGS 23 35 16.17 10 Mechanical Engine [and Welding Fume] Exhaust Systems
- UFGS 48 14 13.00 20 Solar Liquid Flat Plate and Evacuated Tube Collectors
- UFGS 13 48 73 Seismic Control for Miscellaneous Equipment

Pavements/Airfields

- UFGS 32 12 17.19 Fuel Resistant Asphalt Paving for Airfields - Surface Course
- UFGS 32 01 16.70 Cold-Mix Reused Asphalt Paving
- UFGS 32 01 16.74 In Place Hot Reused Asphalt Paving
- UFGS 32 01 29.62 Concrete Pavement Raising
- UFGS 32 12 16.19 Cold-Mix Asphalt Paving
- UFGS 32 12 19.16 Resin-Modified Asphalt Paving Wearing Courses

Specifications

- UFGS 01 42 15 Metric Measurements

Structural

- UFGS 03 30 00 Cast-In-Place Concrete

Waterfront

- UFGS 03 31 29 Marine Concrete with Service Life Modeling
- UFGS 03 01 00 Rehabilitation of Concrete
- UFGS 03 01 30 Restoration of Concrete in Historic Structures
- UFGS 03 01 32 Concrete Rehabilitation for Civil Works
- UFGS 03 30 00 Cast-In-Place Concrete
- UFGS 03 30 53 Miscellaneous Cast-In-Place Concrete
- UFGS 03 31 01.00 10 Cast-In-Place Structural Concrete for Civil Works
- UFGS 03 31 30 Marine Concrete
- UFGS 03 33 00 Cast-in-Place Architectural Concrete
- UFGS 03 37 13 Shotcrete
- UFGS 03 37 23 Roller-Compacted Concrete for Mass Concrete Construction
- UFGS 03 37 29 Concrete for Concrete Cutoff Walls
- UFGS 03 39 00.00 10 Concrete Curing
- UFGS 03 41 16.08 Precast Concrete Slabs (Max. Span 8 Feet O.C.)
- UFGS 03 42 13.00 10 Plant-Precast Concrete Products for Below-Grade Construction
- UFGS 03 44 00 Reinforced Autoclave Aerated Concrete Panels
- UFGS 03 45 00 Precast Architectural Concrete
- UFGS 03 45 33 Precast [Prestressed] Structural Concrete
- UFGS 03 47 13 Tilt-Up Concrete
- UFGS 03 70 00 Mass Concrete
- UFGS 32 13 13.03 Airfields and Heavy-Duty Concrete Pavement Less Than 10000 Cubic Yards
- UFGS 32 13 13.06 Portland Cement Concrete Pavement for Roads and Site Facilities
- UFGS 32 13 14.13 Concrete Paving for Airfields and Other Heavy-Duty Pavements
- UFGS 32 16 19 Concrete Curbs, Gutters and Sidewalks

6 CRITERIA CHANGE REQUESTS (CCRs)

6.1 Introduction

CCRs provide a process whereby users of UFCs, FCs, and UFGSs 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 CCRs to document and submit comments on a UFC, FC, or 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 CCR commenting system is an open system. The system handles thousands of queries and comments a year.

6.2 CCR Status

CCR status provides a means to manage and track submitted CCRs until they are completed and incorporated into UFC, FC or UFGS documents or disapproved. Depending on the potential impact of an approved CCR, 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.'

In FY 2022, approximately 1,200 CCRs were submitted.