

DoD UNIFIED FACILITIES CRITERIA PROGRAM

FY 2024 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 (UFGS) are technical criteria documents and specifications used for planning, design, construction, and maintenance of all DoD facility projects. Highlights and accomplishments for FY 2024 include:

- Achieved an 81% unification rate for all UFC documents and an 78% unification rate for all UFGS, up from 78% and 77% in FY 2023;
- Published 19 new or revised UFCs;
- Published 59 new or revised UFGS; and
- Managed over 2,700 Criteria Change Requests (CCRs) submitted in FY 2024.

In addition to criteria document improvements, the program provides technical expertise and guidance on many key DoD issues. Major highlights and accomplishments in FY 2024 include:

- Upgrading UFC program resourcing;
- Implemented improved processes including:
 - Increasing the allowed number of changes;
 - Upgraded the Discipline Working Group (DWG) collaborative review process;
 - Inserted technical editors' review prior to Coordinating Panel (CP) review;
 - Improved the tracking UFC/UFGS overdue documents; and
 - Began developing standard applicability language.
- Began updating MIL-STD-3007G to include section on waivers and exemptions;
- Continued development of Project Planning UFC;
- Continued updating UFCs relevant to Arctic region criteria;
- Continued issuing DWG Quarterly Reports and holding Executive Briefings;
- Integration of the Design-Build DWG into the Construction DWG;
- Began updating UFCs to incorporate ASHRAE 90.1;
- Held annual DWG Training Workshop;
- Participated in Building Criteria Workshop; and
- Issued responses to National Defense Authorization Act (NDAA) requirements.

2 PROGRAM OVERVIEW

2.1 Program Authority

Figure 2-1 shows the 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 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.

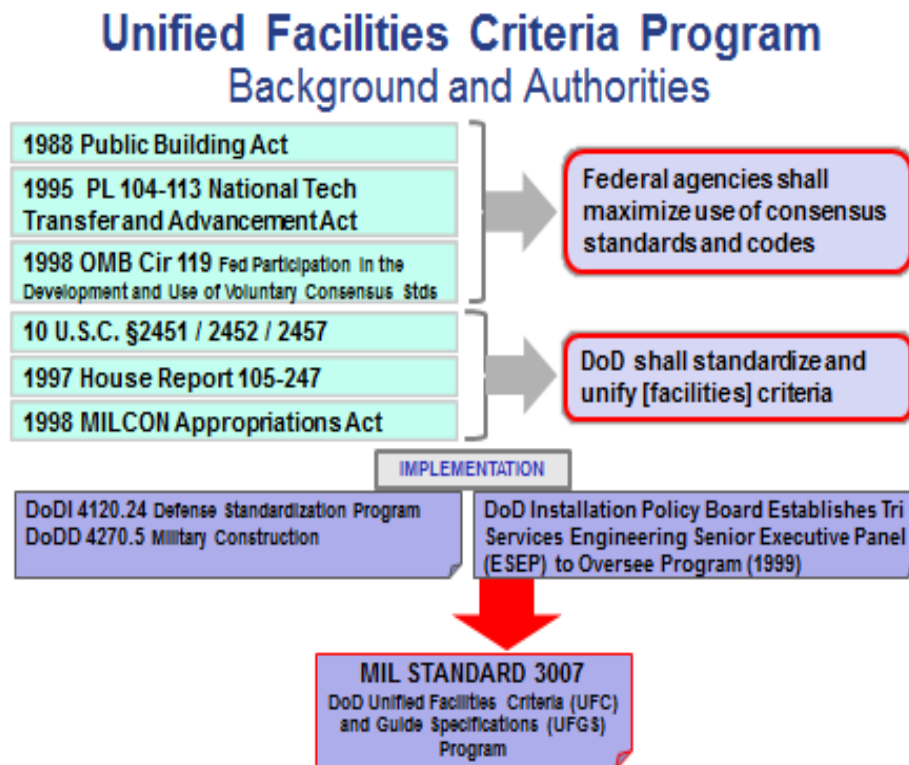


Figure 2-1
UFC Program Background and Authorities

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 (DWGs) and Functional Working Groups (FWGs) are responsible for criteria development and production. Membership and structure are shown in Figure 2-2.

- ESEP Chair–Pete Perez, U.S. Army Corps of Engineers
- CP Chair–Sherri McMillion, Naval Facilities Engineering Systems Command
- 23 Discipline and Functional Working Groups

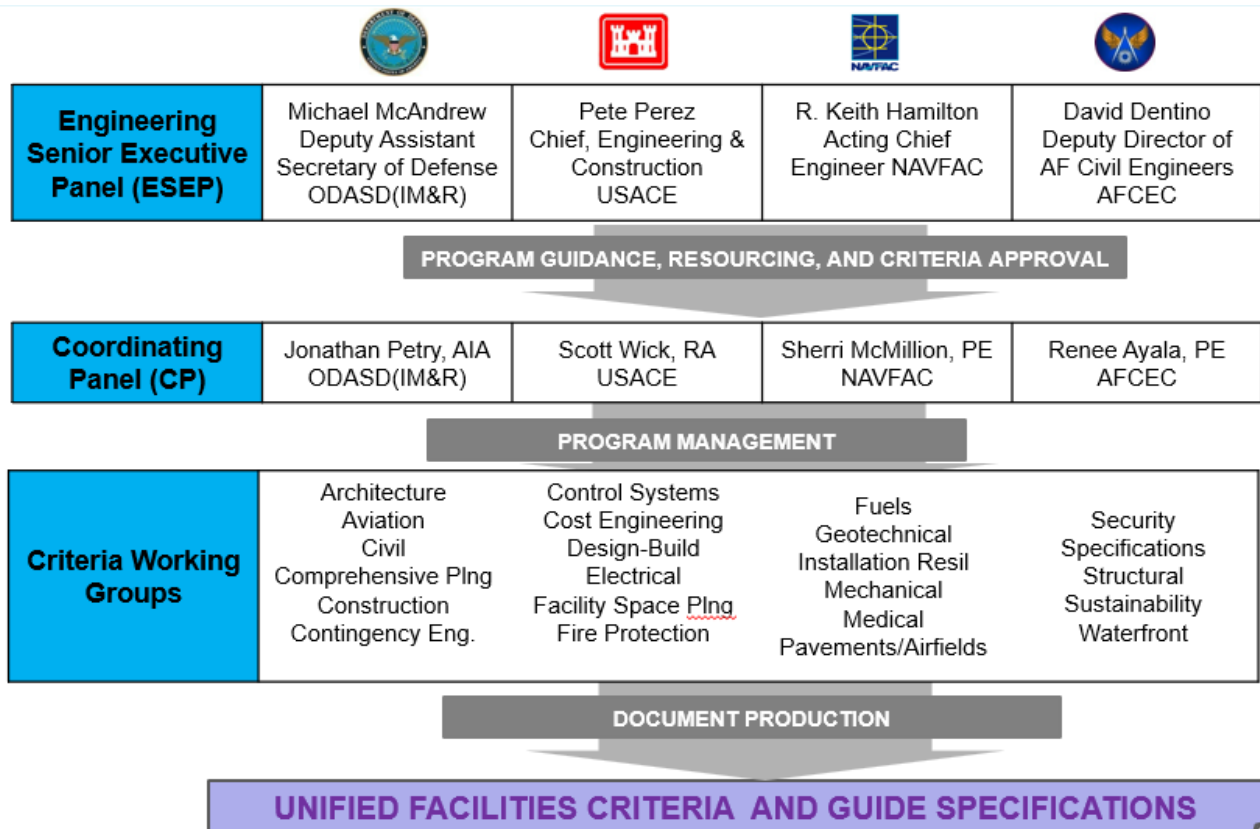


Figure 2-2
UFC Program Oversight and Structure

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 DWGs and FWGs. The working groups are responsible for development and

maintenance of the criteria documents by in-house staff or through architect-engineer contracts.

2.4 Program Resources

The ESEP resources the UFC program administration through USACE, NAVFAC, AFCEC, and OSD. As such, the CP and the DWGs and FWGs are responsible for program management, development, and maintenance of the criteria documents. Funding is 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 2021	FY 2022	FY 2023	FY 2024
Army	\$1,300,000	\$1,772,000	\$4,234,400	\$2,435,000
Navy	\$1,951,540	\$2,472,500	\$2,975,000	\$3,095,000 ¹
Air Force	\$3,900,000	\$2,235,000	\$1,880,000	\$2,200,000 ²
OSD	\$0	\$4,788,000	\$9,400,000	\$8,325,353
Total	\$7,151,540	\$11,267,500	\$18,489,400	\$16,055,353

**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 2023 and FY 2024 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 2024 criteria support costs is shown in Table 2-2.

¹ Includes \$1,735,000 Navy Resilience Funding

² Includes \$900,000 Air Force Resilience Funding

AACE Document Licenses	\$34,750
SpecsIntact	\$1,550,000
Area Cost Factor Survey	\$880,603
CP/ESEP Program Support	\$110,000
Whole Building Design Guide	\$700,000
Commercial Standards Subscription	\$4,500,000
UFC/UFGS Changes and Revisions	\$250,000
FY24 Criteria Project Requirements	\$300,000
TOTAL	\$8,325,353

Table 2-2
Criteria Access and Distribution—FY 2024 Funding

3 KEY HIGHLIGHTS AND ACCOMPLISHMENTS

3.1 UFC/UFGS Highlights

For FY 2024, the UFC program achieved an 81% unification rate for all UFC documents and an 78% unification rate for all UFGSs, up from 78% and 77% in FY 2023. The unification rate in the baseline year 1998 was 8%. 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 19 new or revised UFCs and 59 new or 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. Core UFCs provide requirements for the majority of traditional building systems that are prevalent on DoD facility construction projects.

In FY 2024 DoD published updates to eight core UFCs:

- 3-101-01: Architecture;
- 3-301-01: Structural Engineering;
- 3-410-01: Heating, Ventilating and Air Conditioning;
- 3-501-01: Electrical Engineering;
- 3-530-01: Interior And Exterior Lighting Systems and Controls;
- 3-600-01: Fire Protection Engineering for Facilities;
- 4-010-01: DoD Minimum Antiterrorism Standards for Buildings; and
- 4-010-06: Cybersecurity of Facility-Related Control Systems.

3.2 Upgrading UFC Program Resourcing

Throughout FY 2024, the UFC Program continued to receive increased resourcing funding and hiring in order to reduce the backlog of overdue documents. Program funding increased to \$16 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 2025 in response to the plan developed by the CP in FY 2024.

3.3 Process Improvements

During FY 2024, the CP implemented a number of process improvements to expedite review, approval and publishing of UFCs and UFGSs. These improvements included:

- Increasing the allowed number of changes to a UFC document to align with the reset calendar, thus improving the document publication timeline;

- Program health indices were improved by removing inactive and archived UFCs from the active document inventory and by correcting refresh rates. The number of overdue documents was significantly reduced during the course of the year.
- Review of UFCs by multiple DWGs has always been a challenge to coordinate. The CP has developed improved methods for assuring this collaborative review process among DWGs.
- To speed up the UFC review process, the program's technical editors will perform their review and edits prior to the CP document review, thus eliminating the time-consuming and inefficient role of CP copy and technical editing.
- Overdue documents adversely affect the overall health of the program. In FY 2024, the CP became more involved in working with the appropriate DWGs to bring overdue documents to completion.
- Began the process of aligning UFC applicability paragraphs to be consistent by modifying every UFC applicability paragraph to reference UFC 1-200-01 applicability paragraph.

3.4 MIL-STD-3007G Update

The CP began a review and update to MIL-STD-3007G to include a section on waivers and exemptions. This standard establishes policy for developing and maintaining UFCs, UFGS, and Facilities Criteria (FC) as common facility standards and engineering practices for DoD and other supported agencies.

3.5 Project Planning UFC

Work continued on the development of a new UFC that will consolidate design criteria to be considered in the project planning phase. This UFC is needed to clarify the various meanings of planning within DoD. Eighty current UFCs were reviewed to identify and extract planning-related criteria. Information was funneled into 3 categories: 1) General Requirements 2) Scope Requirements, and 3) Site Selection. A draft UFC was distributed to relevant DWGs; comments have been resolved and document is pending approval.

3.6 Arctic Documents

Previously, the CP approved consolidating the seven Arctic and Subarctic documents into five volumes. During FY 2024, the Arctic documents continued review by an integrated set of relevant DWGs. During FY 2024, all five of the Arctic documents were submitted by the Arctic team for CP and ESEP approval.

3.7 Discipline Working Group Quarterly Reports and Executive Briefings

During FY 2024, the CP continued to implement quarterly reports with program metrics. These reports provide a graphic update of program status for each of the 22 DWGs and FWGs, which are collectively referred to as DWGs. The CP also conducted executive briefings with 15 DWGs on status of reports and issues of concern. These have resulted in a significant reduction in number of overdue documents. Figure 3-1 shows the health of each DWG detailing the number of current and overdue documents with the health score noted for both current and previous.

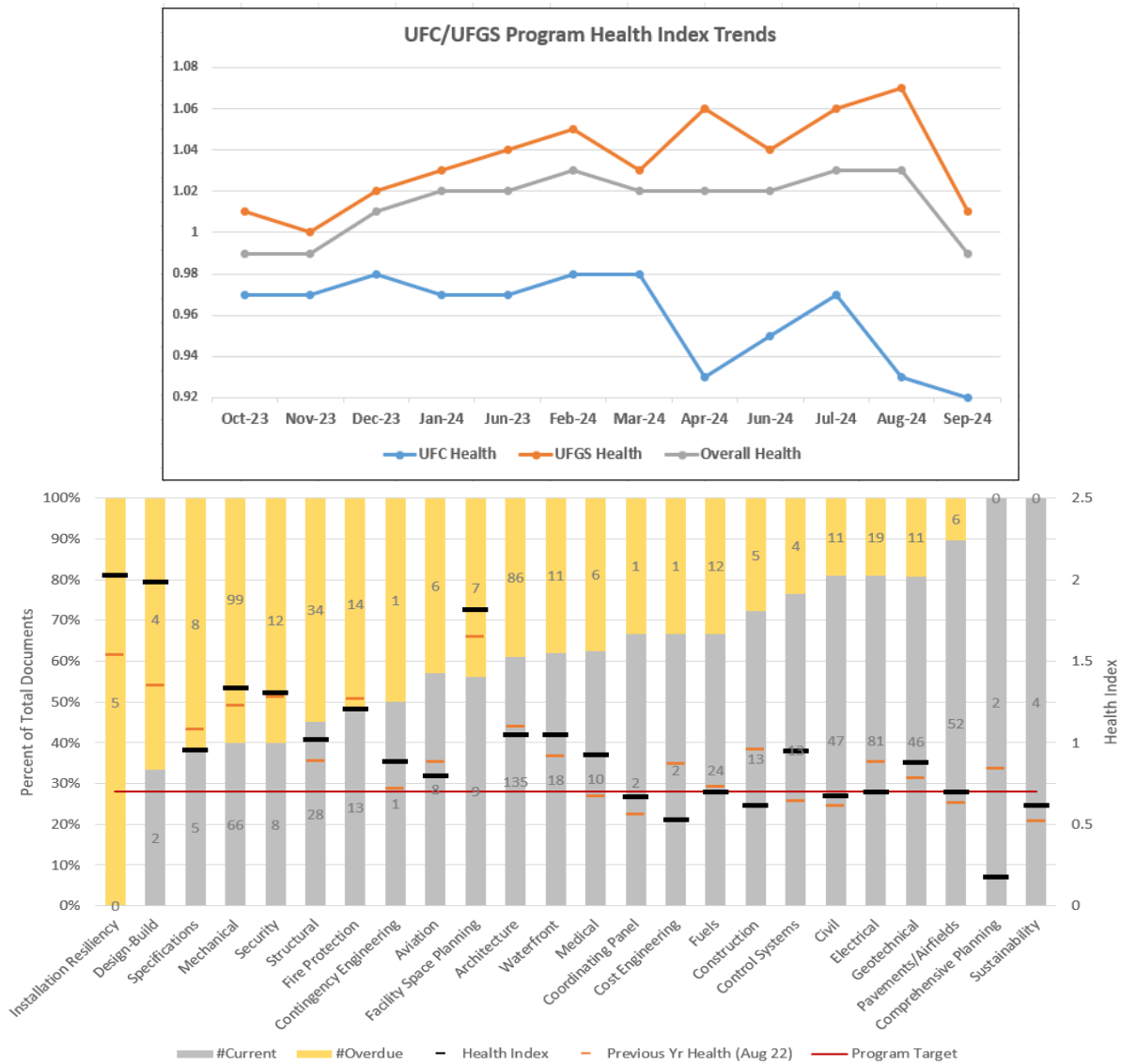


Figure 3-1
Example of DWG Document Health Chart in FY 2024

3.8 Integration of Design-Build DWG into Construction DWG

After reviewing the scope of the Design-Build DWG, the CP merged the Design-Build DWG into the Construction DWG. It was seen as more appropriate to combine the DWGs as the Construction DWG coordinates the Services' efforts related to contract administration and construction management topics such as scheduling, quality control and assurance, payments, submittals, temporary construction facilities, and site safety.

3.9 Updates to UFCs to Incorporate ASHRAE 90.1

During FY 2024, all UFCs that contains references to ASHRAE 90.1 have been updated and published with correct references. An updated UFC 1-200-01 DoD Building Code is anticipated in FY 2025.

3.10 Annual DWG Training Workshop

The annual DWG Training Workshop took place in May 2024 at the Humphrey's Engineering Center in Northern Virginia. The workshop's purpose was to provide better program alignment and direction across DWGs to improve consistency and efficiencies. Sixty-six DoD personnel attended representing all 23 DWGs. A good portion of the attendees were new to the program, so were able to learn the processes and procedures of the UFC program. The workshop provides face time with the ESEP for discussion and questions.

3.11 DoD Building Criteria Workshop

In April 2024, DoD convened a meeting of government and private sector building code experts to assess and benchmark DoD criteria against existing and emerging codes, policies, and building performance standards in terms of resilience, clean and reliable energy, electrification, and indoor environmental quality. Several key recommendations came out of the workshop, including the digitization of UFCs, development of a DoD-specific building performance standard, and the improvement of life-cycle cost policy.

The workshop was attended by 100 people, 1/3 from DoD and 2/3 from outside DoD that included other government agencies and labs, industry, codes organizations, non-profit groups, and other AEC solution providers. The workshop products include core principles, strategic plan outlines, metrics, and benchmarks. It is noted that industry indicated general support for the UFC programs, seeing it as forward looking.

3.12 National Defense Authorization Act (NDAA) Requirements

Resilience. Provisions in the FY 2024 NDAA require DoD to update Congress on efforts to include military installation resilience in all installation master plans. Among other provisions, the law requires an update to UFC 2-100-01 Installation Master Planning.

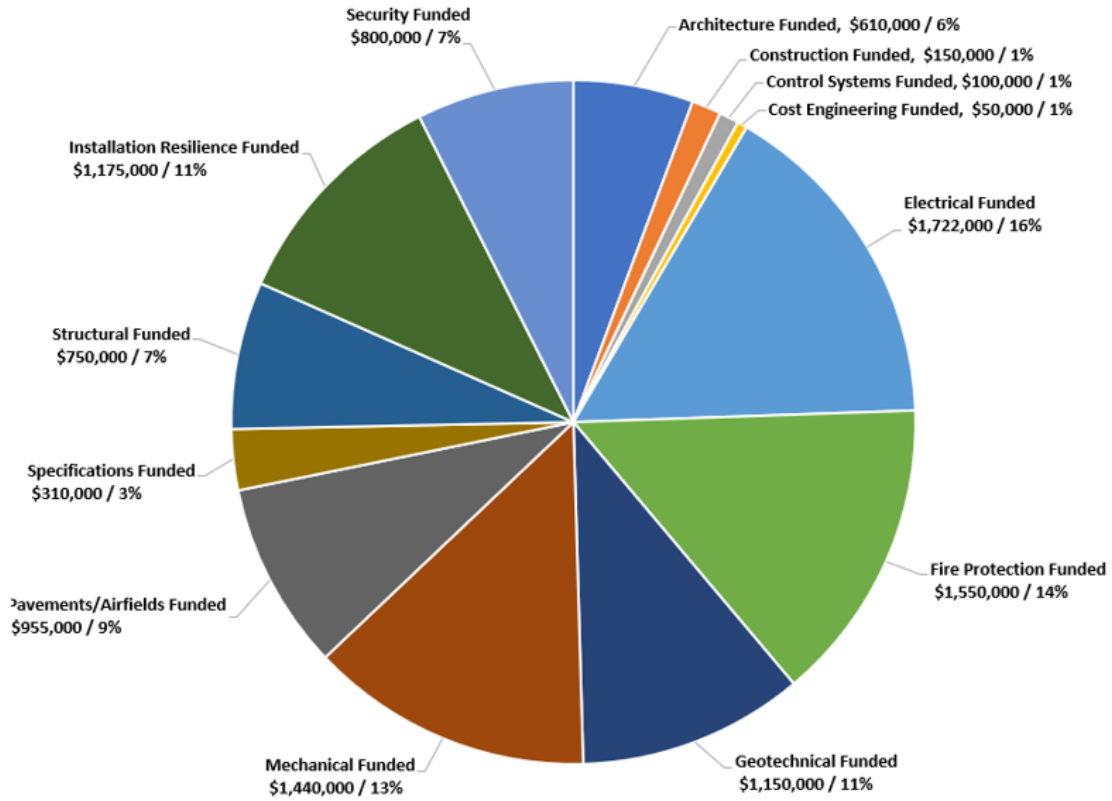
Microgrids. Relevant UFCs and UFGS were modified to include criteria and specifications for microgrids and microgrid controllers. UFC 3-550-4 Resilient Installation Microgrid Design provides criteria on installation microgrid design requirements, performance metrics to inform design, sequence of operations, commissioning and validation, and sustainment. UFGS 26 37 13 Microgrid Control System covers the requirements of a Microgrid Control System (MCS) in accordance with the parallel UFC 3-550-04. The MCS may consist of a central controller or distributed control logic executed among multiple discrete devices.

3.13 Project Prioritization for FY 2025

During FY 2024, the CP conducted an in-depth project prioritization for FY 2025 UFC and UFGS projects. DWGs were notified with a call for projects, and input was received from 16 DWGs. DWGs submitted 71 project proposals requesting \$13.8 million; 57 were funded at FY 2025 cost of \$10.8 million of which \$6.4 million qualified for OSD resilience funding. Table 3.1 shows funding committed by Service for FY 2025; Figure 3-2 shows funding commitment by DWG.

Army Funding	Navy Funding	Air Force Funding	OSD Resilience Funding
\$2,386,000	\$775,000	\$1,225,000	\$6,376,000

**Table 3-1
FY 2025 Funding Commitment by Service**



1

Figure 3.2
FY 2025 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 provides 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

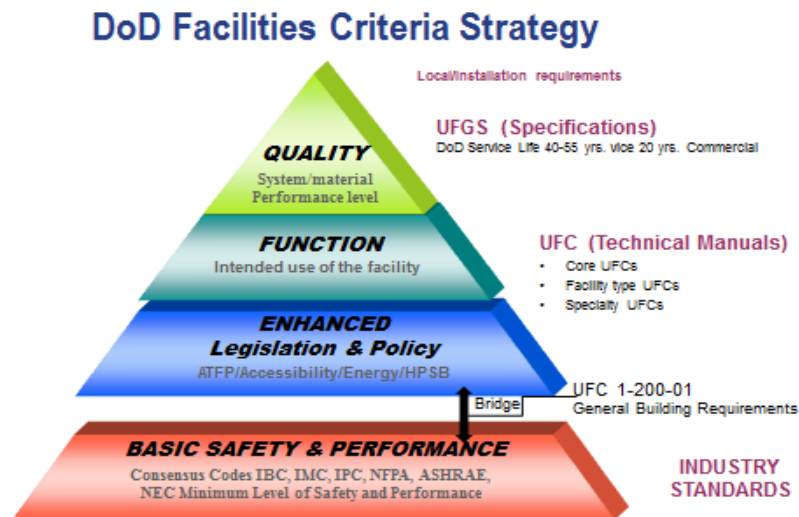


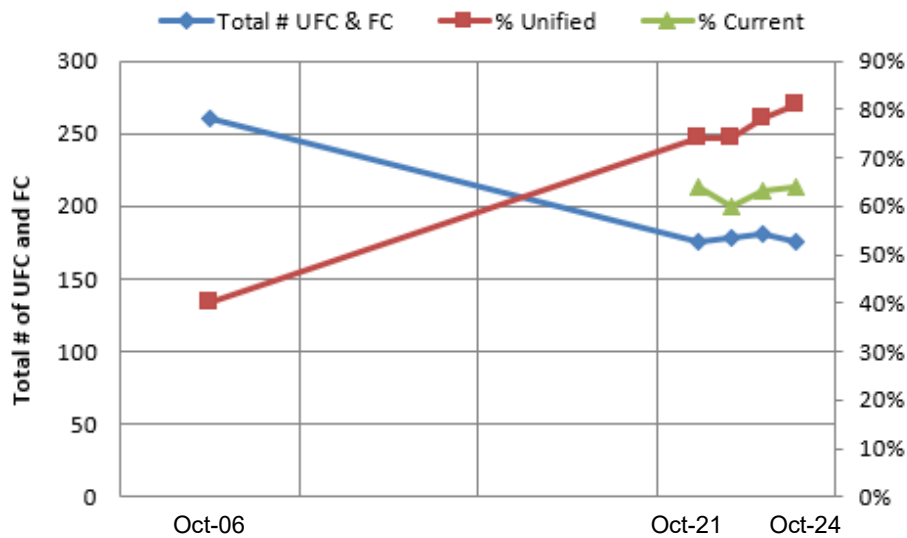
Figure 4-1
DoD Facilities Criteria Strategy

(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.

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-21	Oct-22	Oct-23	Oct-24
Total # UFC & FC	361	260	176	178	181	176
% Unified	9%	40%	74%	74%	78%	81%
% Current	N/A	N/A	64%	60%	63%	64%

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 2024 UFC Publications

In FY 2024, 19 new or revised UFC were published:

UFC	Description	Date
3-301-01	Structural Engineering, with Change 1	10/2/2023
4-010-06	Cybersecurity of Facility-Related Control Systems (FRCS)	10/10/2023
3-230-02	O&M: Water Supply Systems, with Change 2	11/1/2023
4-510-01	Design: Military Medical Facilities, with Change 3	11/30/2023
3-501-01	Electrical Engineering, with Change 2	12/15/2023
3-530-01	Interior and Exterior Lighting Systems, with Change 1	12/15/2023
3-101-01	Architecture, with Change 4	1/8/2024
3-410-01	Heating, Ventilating, and Air Conditioning Systems, with Change 9	1/9/2024
3-400-02	Design: Engineering Weather Data, with Change 1	1/9/2024
3-270-08	Pavement Management	1/19/2024
3-250-04	Standard Practice for Concrete Pavement Construction	1/29/2024
4-711-01	Family Housing, with Change 2	2/14/2024
3-600-01	Fire Protection Engineering for Facilities with Change 1-6	3/1/2024
3-550-04	Installation Microgrid Design	3/1/2024
3-730-01	Programming Cost Estimates for Military Construction	3/1/2024
3-555-01	Aircraft Point-of-Use Power Systems	3/1/2024
4-010-01	DoD Minimum Antiterrorism Standards for Buildings	5/13/2024
FC 1-300-09N	Navy and Marine Corps Design Procedures	5/17/2024
FC 3-401-02	Existing Building Commissioning	8/20/2024

Table 4-2
FY 2024 UFC Publications

4.5 FY 2025 UFC Projects

The following UFCs comprise approved and funded projects for FY 2025.

Architecture

- UFC 4-721-10N: Navy and Marine Corps Unaccompanied Housing
- UFC 4-440-01: Warehouses and Storage Facilities

Aviation

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

Cost Engineering

- UFC 3-701-01: DoD Facilities Pricing Guide
- UFC 3-740-05: Construction Cost Estimating

Electrical

- UFC 3-101-01: Architecture
- UFC 3-530-01: Interior And Exterior Lighting Systems
- UFC 3-560-01: Operations and Maintenance: Electrical Safety
- UFC 3-535-01: Visual Air Navigation Facilities
- UFC 3-501-01: Electrical Engineering
- UFC 3-540-01: Engine-Driven Generator Systems for Prime and Standby Power Applications

Fire Protection

- UFC 4-021-01: Design and O&M: Mass Notification Systems
- UFC 3-600-01: Fire Protection Engineering for Facilities with Change 1 - 6

Geotechnical

- UFC 3-220-04FA: Backfill for Subsurface Structures
- UFC 3-220-06: Grouting Methods and Equipment

Installation Resilience

- TBD: Phase 2 - Resiliency Assessments - Risk Reduction Investments
- TBD: Phase 2 - Resiliency Criteria Decision Trees for Critical Facilities

Mechanical

- UFC 3-410-01: Heating, Ventilating and Air Conditioning
- UFC 3-430-08N: Central Heating Plants
- UFC 3-400-02: Design: Engineering Weather Data

Pavements/Airfields

- UFC 3-260-02: Pavement Design for Airfields

Security

- UFC 4-022-02: Selection and Application of Vehicle Barriers
- UFC 4-026-03: Design of Shielding for Reducing Electronic Emanations

Structural

- UFC 4-023-03: Design of Buildings to Resist Progressive Collapse

Sustainability

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

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 Masterformat™. 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

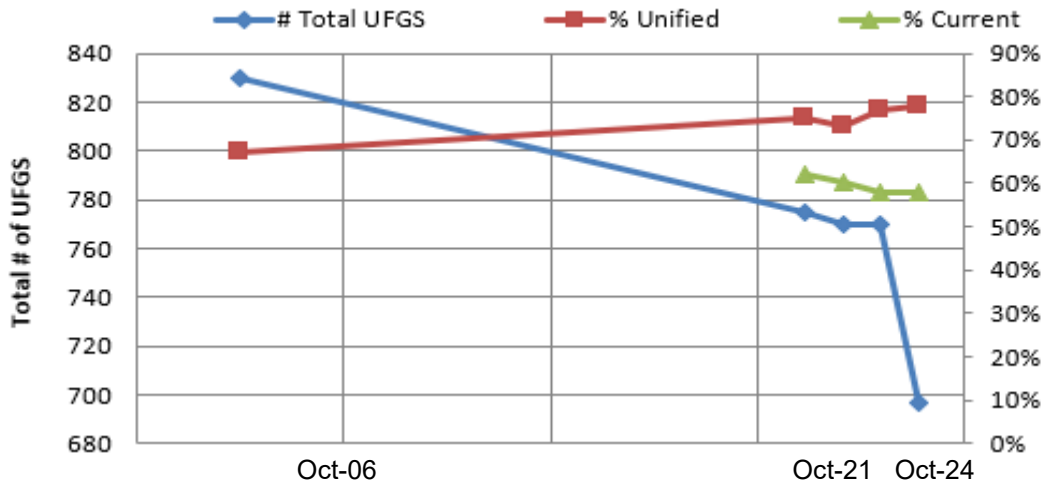
UFGS provide the level of quality and performance to provide best life-cycle cost sustainment for DoD facilities over a 45-55-year service life. UFGS are editable in order to adjust quality and level of performance based on project specific factors such as climate zone, site factors, structural loading, 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. DoD's Criteria Management System (CMS) is being programmed to show the UFC and UFGS relationship fields in the document screens. The CP identifies core UFGS similar to the core UFCs and bundles UFGS 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 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.

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-98	Oct-06	Oct-21	Oct-22	Oct-23	Oct-24
# Total UFGS	1179	830	775	770	770	697
% Unified	0%	67%	75%	73%	77%	78%
% Current	N/A	N/A	62%	60%	58%	58%

Table 5-1
UFGS Health Metrics

5.4 FY 2024 New and Revised UFGS

In FY 2024, 59 new or revised UFGS were published. A complete listing of UFGS can be found at: <https://www.wbdg.org/dod/ufgs>.

5.5 FY 2025 UFGS Projects

The following UFGS comprise the funded and approved projects for FY 2025.

Architecture

- UFGS 07 41 63: Fabricated Roof Panel Assemblies
- UFGS 09 72 00: Wallcoverings
- UFGS 09 84 20: Acoustical Wall Panels
- UFGS 10 14 00.10: Exterior Signage
- UFGS 11 53 00: Laboratory Equipment and Fumehoods
- UFGS 12 22 00: Curtains and Drapes
- UFGS 12 50 00.13: Furniture and Furniture Installation
- UFGS 12 59 00: Systems Furniture
- UFGS 13 21 48: Prefabricated Audiometric Rooms
- UFGS 13 34 19: Metal Building Systems
- UFGS 09 01 90.50: Preparation of Historic Wood and Metal Surfaces for Painting
- UFGS 09 35 16: Chemical-Resistant Quarry Tiling
- UFGS 09 66 13: Portland Cement Terrazzo Flooring
- UFGS 09 66 16: Terrazzo Floor Tile
- UFGS 09 62 38: Static-Control Flooring
- UFGS 09 64 29: Wood Strip and Plank Flooring
- UFGS 09 64 66: Wood Athletic Flooring
- UFGS 09 65 66: Resilient Athletic Flooring
- UFGS 09 66 23: Resinous Matrix Terrazzo Flooring

Aviation

- UFGS 08 88 58: Air Traffic Control Tower Cab Glass

Construction

- UFGS 01 32 16.00 20: Small Project Construction Progress Schedules
- UFGS 01 35 29.13: Health, Safety and Emergency Response Procedures for Contaminated Sites
- UFGS 01 58 00: Project Identification

Control Systems

- UFGS 23 09 13: Instrumentation and Control Devices for HVAC

Electrical

- UFGS 26 51 00: Interior Lighting
- UFGS 26 56 00: Exterior Lighting
- UFGS 26 20 00: Interior Distribution System
- UFGS 33 71 02: Underground Electrical Distribution
- UFGS 33 71 01: Overhead Transmission and Distribution
- UFGS 26 12 19: Pad-Mounted, Liquid-Filled, Medium-Voltage Transformers
- UFGS 26 08 00: Apparatus Inspection and Testing
- UFGS 26 33 00: Battery Energy Storage System

- UFGS 26 29 23: Adjustable Speed Drive (ASD) Systems Under 600 Volts
- UFGS 26 56 20: Airfield and Heliport Lighting and Visual Navigation Aids
- UFGS 26 33 53: Static Uninterruptible Power Supply (UPS)
- UFGS 26 05 13.00 10: Medium-Voltage Cables
- UFGS 27 53 19: Distributed Antenna Systems

Fire Protection

- UFGS 28 31 XX: Fire Detection and Alarm System, Addressable
- UFGS 21 13 25: High-Expansion Foam System, Fire Protection
- UFGS 07 81 00: Spray-Applied Fireproofing
- UFGS 07 84 00: Firestopping

Fuels

- UFGS 09 97 13.30: High Performance Coatings for Fuel Structures

Geotechnical

- UFGS 33 26 00.00.10: Relief Wells
- UFGS 31 56 13.13: Soil-Bentonite (S-B) Slurry Walls

Installation Resiliency

- UFGS 48 14 00: Solar Photovoltaic Systems
- UFGS 48 15 00: Wind Generator Systems
- UFGS 48 16 00: Landfill Gas Systems

Mechanical

- UFGS 23 52 30.00 10: Heat Recovery Boilers
- UFGS 23 30 00: HVAC Air Distribution
- UFGS 22 15 19.19 20: Nonlubricated Rotary Screw Air Compressors (100 HP and Larger)
- UFGS 22 15 19.13 20: Large Nonlubricated Reciprocating Air Compressors (Over 300 HP)
- UFGS 22 15 26.00 20: High and Medium Pressure Compressed Air Piping
- UFGS 22 16 19.26 20: Large Centrifugal Air Compressors (Over 200 HP)
- UFGS 43 15 00.00 20: Low Pressure Compressed Air Piping (Non-Breathing Air Type)
- UFGS 23 57 10: Forced Hot Water Heating Systems Using Water and Steam Heat Exchangers
- UFGS 23 57 10.00 10: Forced Hot Water Systems Using Water and Steam Heat Exchangers
- 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 40 17 26.00 20: Welding Pressure Piping
- UFGS 43 21 29: Flow Measuring Equipment [Potable Water] [Sewage Treatment Plant]
- UFGS 33 61 13.13: Prefabricated Underground Hydronic Energy Distribution
- UFGS 22 13 29: Sanitary Sewerage Pumps
- UFGS 33 61 13.19: Valves, Piping, and Equipment in Valve Manholes
- UFGS 33 61 14: Exterior Buried Preinsulated Water Piping
- UFGS 33 63 13.19: Concrete Trench Hydronic and Steam Energy Distribution
- UFGS 23 08 01.00 20: Testing Industrial Ventilation Systems

Pavements/Airfields

- UFGS 32 11 13.13: Lime Treated Subgrade
- UFGS 32 11 33.13: Portland Cement-Stabilized Base or Subbase Course
- UFGS 32 11 36.13: Lean Concrete Base Course
- UFGS 32 12 15.13: Asphalt Paving for Airfields
- UFGS 32 13 13.06: Portland Cement Concrete Pavement for Roads and Site Facilities
- UFGS 32 13 43: Pervious Concrete Paving
- UFGS 32 13 73.19: Compression Concrete Paving Joint Sealant
- UFGS 34 73 13: Aircraft Tiedowns

Specifications

- Update UFGS 01 78 00
- XX XX XX:UFGS Section Template
- TBD: Project Record Document

Structural

- UFGS 05 12 00: Structural Steel
- UFGS 05 21 00: Steel Joist Framing
- UFGS 05 30 00: Steel Decks
- UFGS 05 40 00: Cold-Formed Metal Framing
- UFGS 05 50 13: Miscellaneous Metal Fabrication
- UFGS 05 50 14: Structural Metal Fabrications
- UFGS 05 05 23.13 10: Ultrasonic Inspection of Weldments
- UFGS 41 36 30.00 10: Ultrasonic Inspection of Plates
- UFGS 06 17 19: Cross-Laminated Timber
- UFGS 03 70 00: Mass Concrete

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 is part of the Criteria Management System so as to improve working group notification, execution, and tracking of CCRs. 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, the CP developed the CCR quarterly reporting system developed to track CCR status by DWG. Figure 6-1 shows a typical quarterly report. For each DWG, the chart shows total number of CCRs, the percentages awaiting review, in review, approved for next document change or for next document revision.

In FY 2024, over 2,700 CCRs were submitted.

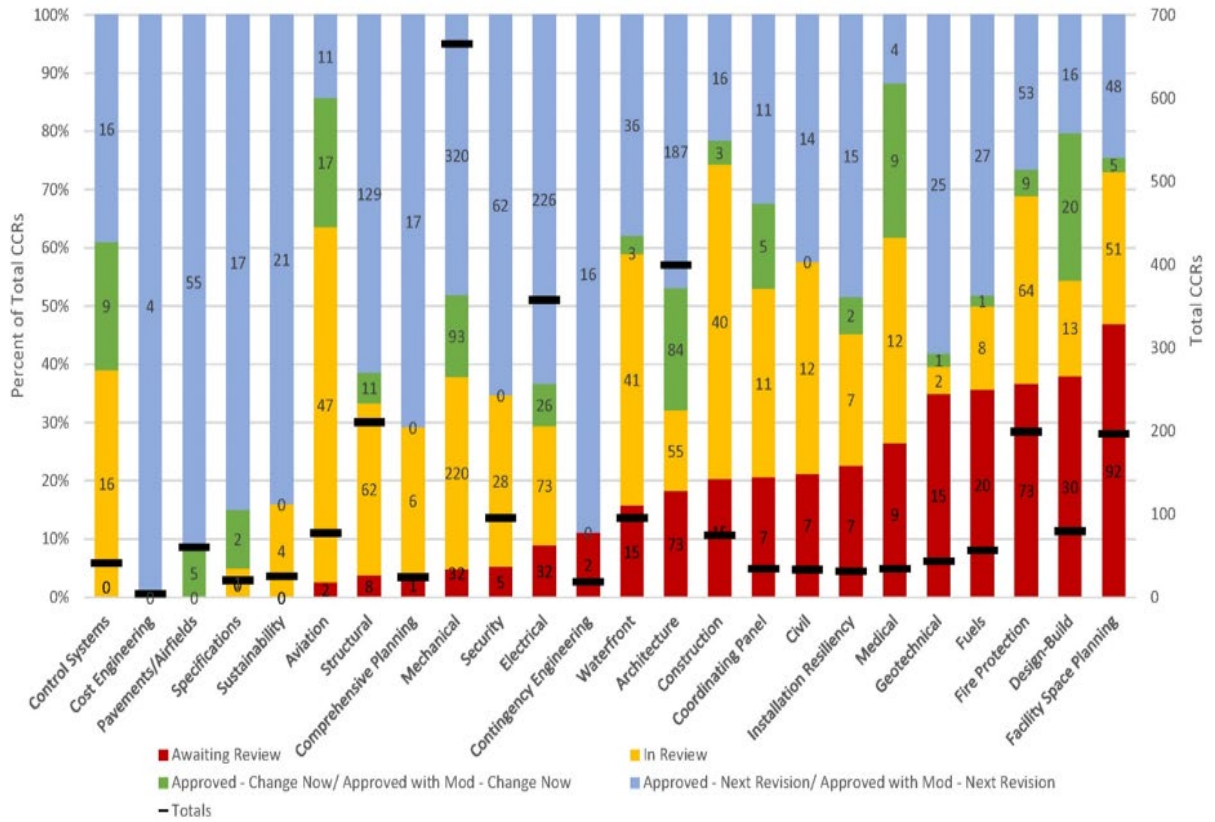


Figure 6-1
Quarterly Report for CCR Health