

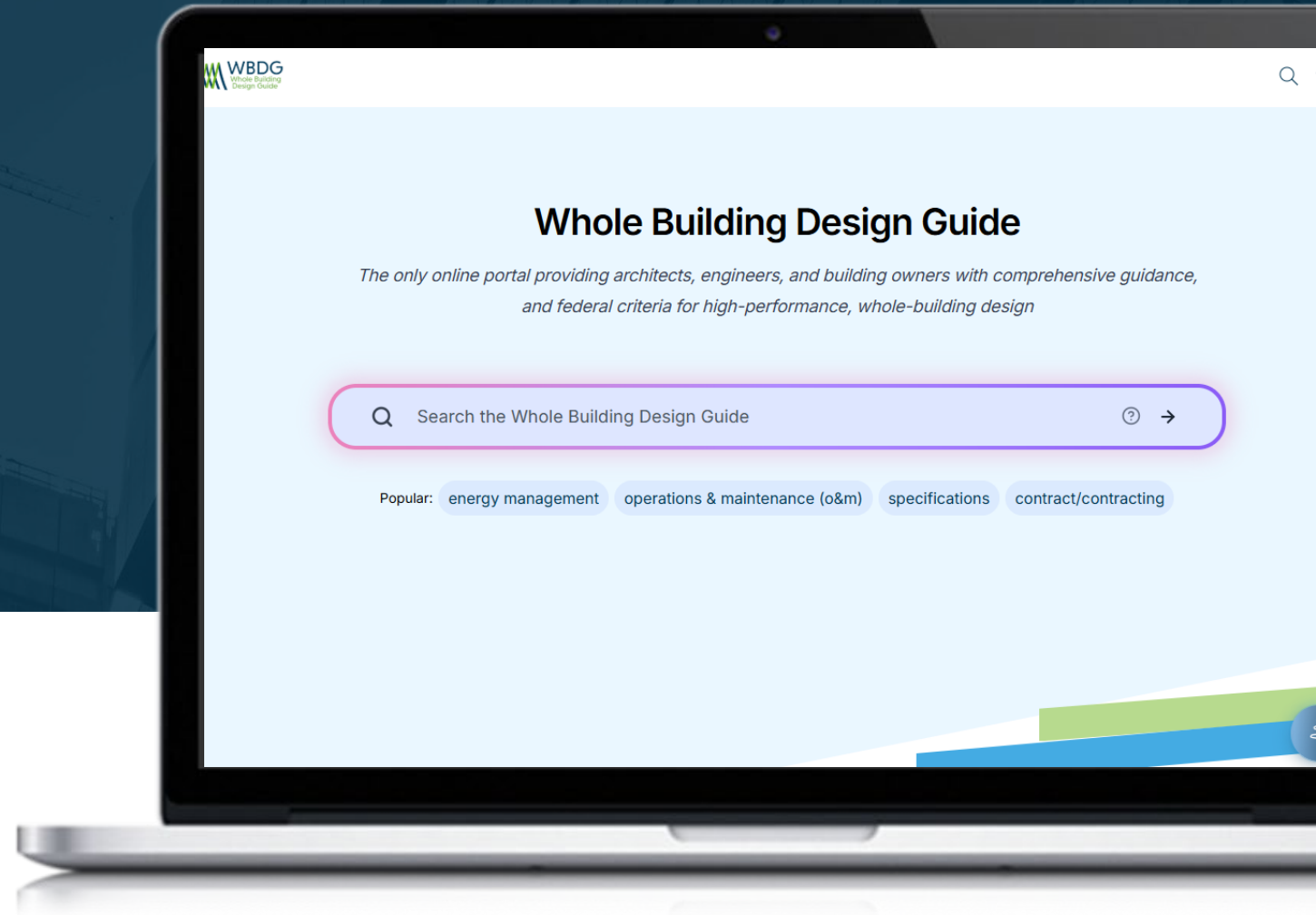
Introducing the New WBDG and Digital Criteria

Kevin Hadden, PE
Brian Derby, PE
Sara Barrett, PE

Agenda:

- Introductions
- WBDG Modernization
- UFC Modernization
- Digital Criteria Features
- Key Takeaways and Q&A

Follow NIBS & WBDG



Whole Building Design Guide Mission



*To promote and protect the national interests in both the public and private sectors by **facilitating acceptance and adoption of standards, innovation, and practice** at the federal, state, and local level. The WBDG specifically supports the assembly, storage, and dissemination of **nationally recognized performance criteria, standards, and best practices.***

WHAT IS THE WHOLE BUILDING DESIGN GUIDE?

6,000 WEB PAGES

Official portal for the Unified Facilities Criteria (UFC) program, including guidelines from the DoD, VA, GSA, and other

70 FREE ONLINE CONTINUING EDUCATION COURSES

The learning portal for FEMP and FREE CEUs for AEC professionals

25+ PARTNERS



29 YEARS IN SERVICE

The WBDG was launched in 1997, combining the DoD's Construction Criteria Base (CCB) with Naval Facilities Engineering Command (NAVFAC) mandates to create an online resource

500K USERS SERVED PER YEAR

The 500,000 annual users are a mix of federal government, federal contractors, and private sector professionals

The WBDG is structured around five distinct areas

① Home

Mission & Portal Gateway

② Knowledge Exchange

8 Design Objectives

③ Federal Facility Criteria

1,000+ Downloadable Documents

④ Continuing Education

Accredited On-Demand Courses

⑤ Additional Resources

Tools, Case Studies & Standards

30 years of service - the WBDG has always aimed to provide free and reliable service to AEC!

Federal Facility Criteria (FFC)

25 categories for document guidance

On the home
page tool bar –
select Federal
Facility Criteria to
Navigate to any of
the following
pages

WBDG Whole Building Design Guide

Home Federal Facility Criteria Knowledge Exchange Education Additional Resources

Federal Facility Criteria >

Department of Defense	Department of Energy	General Services Administration
Army USACE	Department of Health and Human Services	National Aeronautics and Space Administration
Navy NAVFAC	Department of Homeland Security	National Institutes of Health
Air Force AFCEC	Department of Housing and Urban Development	National Institute of Standards and Technology
Air National Guard	Department of State	National Park Service
Defense Health Agency	Department of Transportation	Smithsonian Institution
Washington Headquarters Services	Environmental Protection Agency	U.S. Access Board
Federal and Executive Government	Green Seal	National Institute of Building Sciences
Department of Labor		

Over 1000 documents hosted in the Federal Facility Criteria

Department of Defense FFCs

Home to the Unified Facilities Guidance Specifications (UFGS) and Unified Facilities Criteria (UFC)

FEDERAL FACILITY CRITERIA

Department of Defense

Standardized criteria and resources supporting the development and management of Department of Defense facilities.

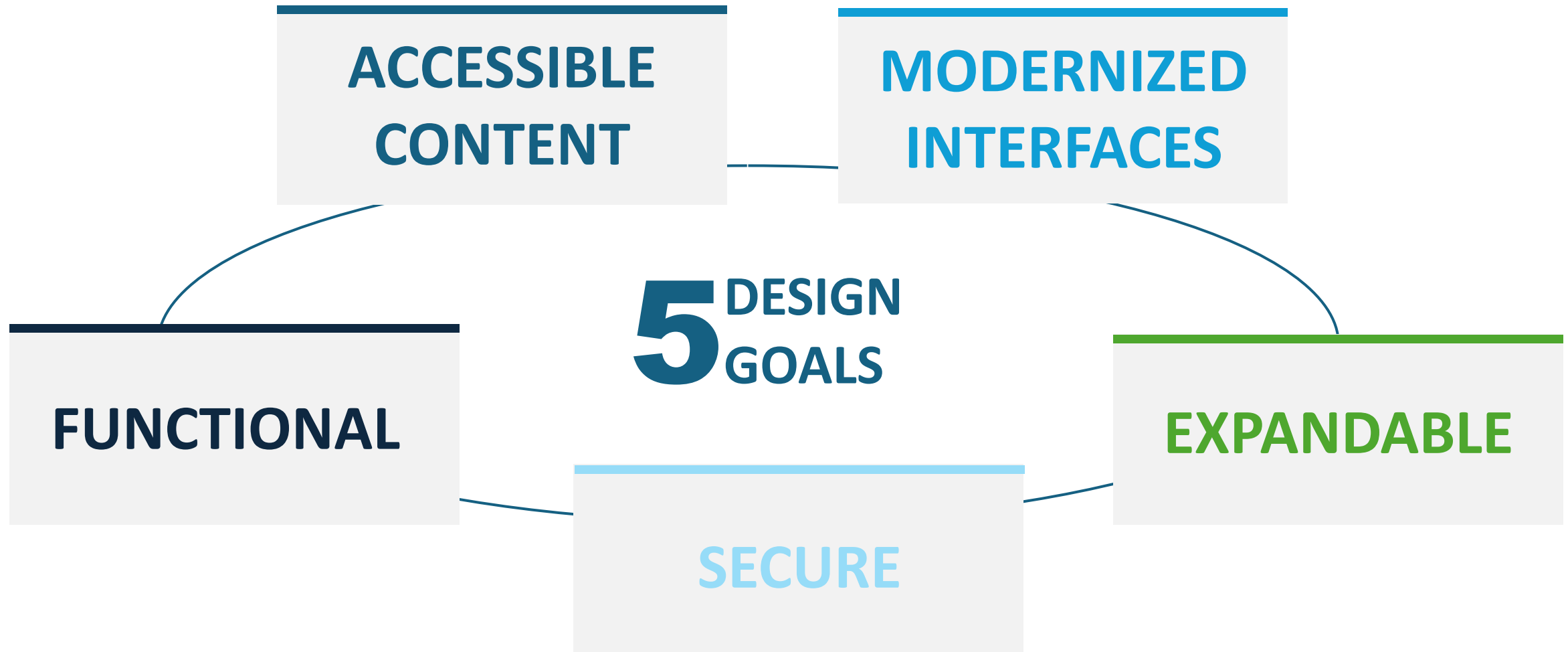


[About](#)[Specifications & Criteria](#)

Table

Cards

CATEGORY	DOCUMENT COUNT
Unified Facilities Guide Specifications (UFGS)	713
Unified Facilities Criteria (UFC)	172
Engineering and Construction Bulletins (ECB)	57
DOD Unified Design Guidance	4
DOD Supplemental Technical Documents	60
DOD Handbooks	3
DOD Manuals	3
Non-COS Standards	9



Thoughtfully Designed, User Focused



5 Design Goals 3 Major Improvements

User Experience Modernization

Improved UI/UX offers clearer navigation, reduced friction, and assistive technologies.

Learning Management System Upgrade

LMS modernization enhances course discovery, enrollment, learning pathways, and outcome tracking for users and admins.

Criteria Management System/Digital Criteria Enhancement

CMS improvement supports structured content authoring, review, and publishing for dynamic, interactive standards.

User Experience Modernization

Modern Web Technology

The screenshot shows a search interface titled "Search our site". At the top is a search bar with the text "HVAC" and a magnifying glass icon. To the right of the search bar is a "Filters" button with a chevron icon. Below the search bar are two filter sections: "Type" and "Status". The "Type" section has a dropdown menu with "Document" selected and a search input field with "Search..." placeholder text. The "Status" section has a dropdown menu with "Active" selected. To the right of these is an "Update date" section with a date input field showing "mm/dd/yyyy". Below these filters is a "Clear filters" button. At the bottom of the filter section are three tags: "Keyword: HVAC", "Type: Document", and "Status: Active". Below the filter section, it says "40 results found". The first result is titled "Multizone to Variable Volume HVAC Controls Retrofit Design & Implementation Suite" and includes a brief description and the date "November 9, 2022". The second result is titled "UFC 3-410-01 Heating, Ventilating, and Air Conditioning Systems, with Change 1" and includes a brief description.

Logical Navigation

Driven by user feedback

Integrated Search and Filter

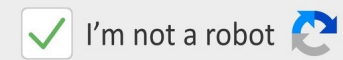
with AI-Powered Document Search

Cross-System Connectivity

Ability to integrate emerging technologies such as AI

Robust Performance & Security

Captcha for BOT detection and Strong and Optimized to support heavy traffic



Designed for usability, built for durability

Semantic Search on WBDG

NIBS has built a proprietary agent that only references documents on the WBDG to reduce AI hallucinations



Home Federal Facility Criteria Knowledge Exchange Education Additional Resources



Edit Page

Whole Building Design Guide

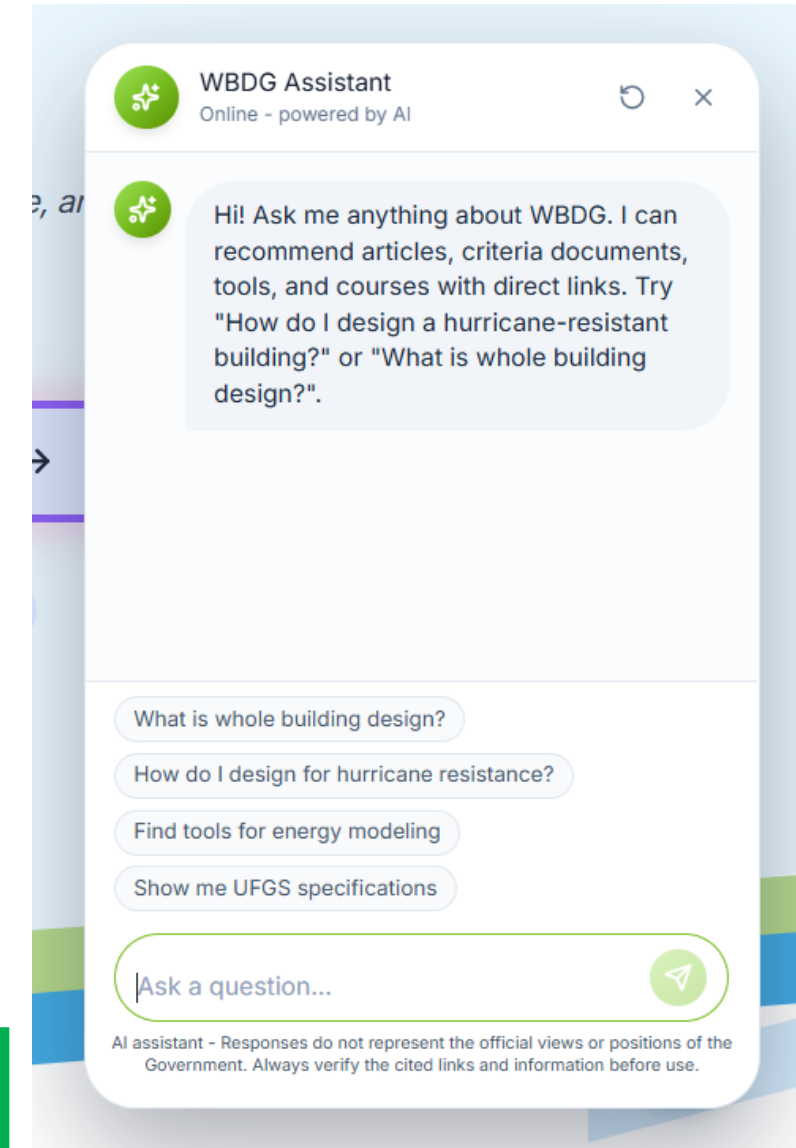
The only online portal providing architects, engineers, and building owners with comprehensive guidance, and federal criteria for high-performance, whole-building design



Search the Whole Building Design Guide



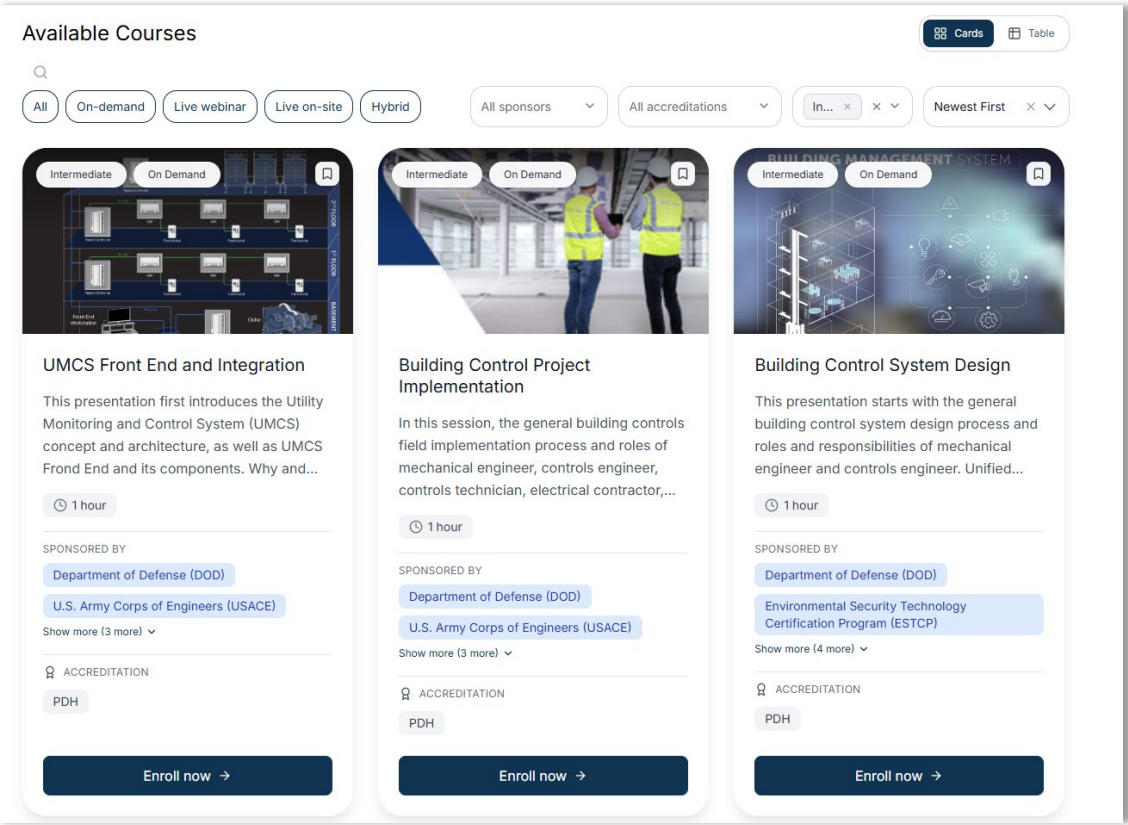
Popular: energy management operations & maintenance (o&m) specifications contract/contracting



A Chat feature that only references WBDG material and shows references to reduce AI errors

Learning Management System (LMS)

Free Learning Resources



Enhanced User Experience

The LMS offers refreshed navigation and smoother user access for an intuitive learning experience.

Learner Journey Focus

The platform streamlines professional development through easy searching, enrollment, and intuitive course controls.

Diverse Course Formats

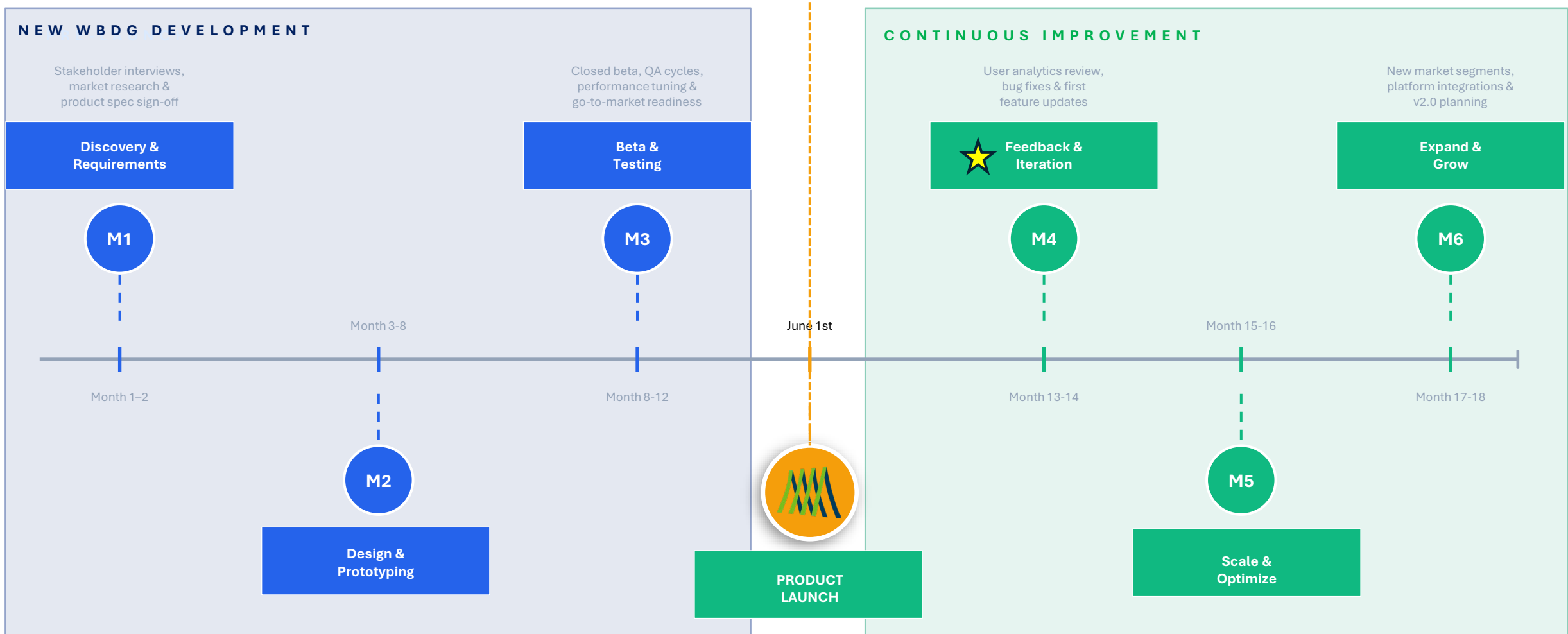
On-demand videos, live webinars, and hybrid options accommodate different learning needs.

Accreditation and Records

Trusted accreditation remains central with improved transcript and certificate lookup for easy recordkeeping.

Free Continuing Education Credits for AE Professionals

From Development to Continuous Improvement



WHAT IMPROVEMENTS ARE COMING?

We are listening to your feedback

① Home

- Make AI more intuitive to use
- Differentiate the user feedback application and added a scroll up button

② Knowledge Exchange

- Upload more new content
- Group topics more intuitively
- Add a submission system for AEC experts to provide articles

③ Federal Facility Criteria

- Create a jump to documents button
- Place the about section and criteria tables on the same page in DOD format
- Add more documents to the Digital Criteria
- Add more features to the Digital Criteria
- Add change documents to show what changes occurred between PDFs and Digital

④ Continuing Education

- Add more accredited courses
- Add more course styles for different learning methods

⑤ Additional Resources

- Connect more tools
- Connect to more applications for easier use of federal criteria

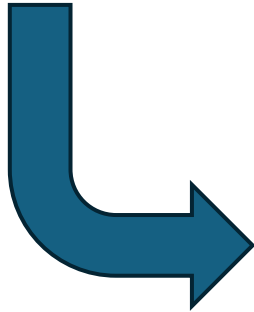
We value your feedback!

IMPROVEMENTS

An example of change documentation located on each UFC page that has been converted from PDF to Digital

1. Navigate to the UFC Page
that you want to review

Documents 7 documents		Results per page 200		
DOCUMENT TITLE	TYPE	PUBLISH DATE	CHANGE DATE	ACTIONS
 UFC 3-501-01 Electrical Engineering	UFC	Nov 27, 2024	Jul 2, 2026	 Online



2. Scroll to the 'Related
Materials' and click to view
the Change Summary

Summary

Digital UFC Content is active for project delivery teams. Refer to UFC 1-200-01 for project applicability. See Related Materials for Change Summary Sheet.

Disclaimer: The Core UFC Change Summaries are provided for information only and are intended to highlight the major changes between the current and previous versions of each core Unified Facilities Criteria (UFC). They are not all-inclusive and may not identify every revision, clarification, or editorial change. These summaries are intended solely as an overview of significant content and criteria updates and should not be used as a substitute for reviewing the complete UFC document.

The purpose of this UFC is to provide technical requirements for general aspects of the electrical design of projects. Apply the criteria provided in this UFC for the development of the plans, specifications, calculations, and Design/Build Request for Proposals (RFP). It serves as the minimum electrical design requirements for design-build and design-bid-build projects. Project conditions may dictate the need for a design that exceeds these minimum requirements.

General information

Status: Active

Publish Date: Nov 27, 2024

Change date: Jul 2, 2026

Series: 3 - Discipline-Specific Criteria, 3-500 Series - Electrical

Related materials

 UFC 3-501-01 Electrical Engineering

 UFC 3-501-01 Change Summary

↑ Back To Top



Unified Facility Criteria Modernization Effort

Our military infrastructure is not just 'real estate'; it is a critical weapons platform. The standards that govern it must be as modern and agile as the forces they support.



Pacing the Threat: Building for Strategic Competition



Increasing Velocity: Delivering at the Speed of Relevance



Driving Affordability: Ensuring Fiscal Stewardship



Harnessing Technology: Paving the Way for Digital Transformation

Why Modernize?

UFC Reform is not a standalone effort - **it is a cornerstone of a broader, multi-faceted strategy to overhaul military construction and acquisition.** This transformation can be understood through four lines of effort:

- Seeking Modern Authorities
- Revisions to Policy
- Oversight & Accountability
- **UFC Structure & Content Reform**

This is our focus. We will make the criteria clearer, more consistent, and more performance-based to enable the speed and innovation demanded.

Comprehensive Transformation Lines of Effort

The DoW, leveraging the expertise of the Tri-Service Criteria Program, is undertaking a deliberate and data-driven campaign to overhaul the UFC program, moving far beyond simple consolidation.

Key Themes:

- Reduction and Consolidation
- Fast-paced Iterations
- A Digital Engine

DELETE

Delete repetitive administrative information, covers, and blank pages.

MOVE to POLICY

Move policy to OSW or MILDEP issuances.

MOVE to UFS

Move commentary and best practices to supplementary dataset.

MOVE to UFM

Move instructional, step-by-step, process-based guidance to manual dataset.

CONSOLIDATE

Consolidate conflicting, overlapping, and redundant requirements, glossaries, acronyms, and indices. State things once.

REVISE

Revise justified requirements for clarity, accuracy, and relevance. Reformat figures and tables.

RETAIN

Retain requirements that differ from International Building Code only as required by law, policy, or mission.

Disciplined Approach to Streamlining UFC

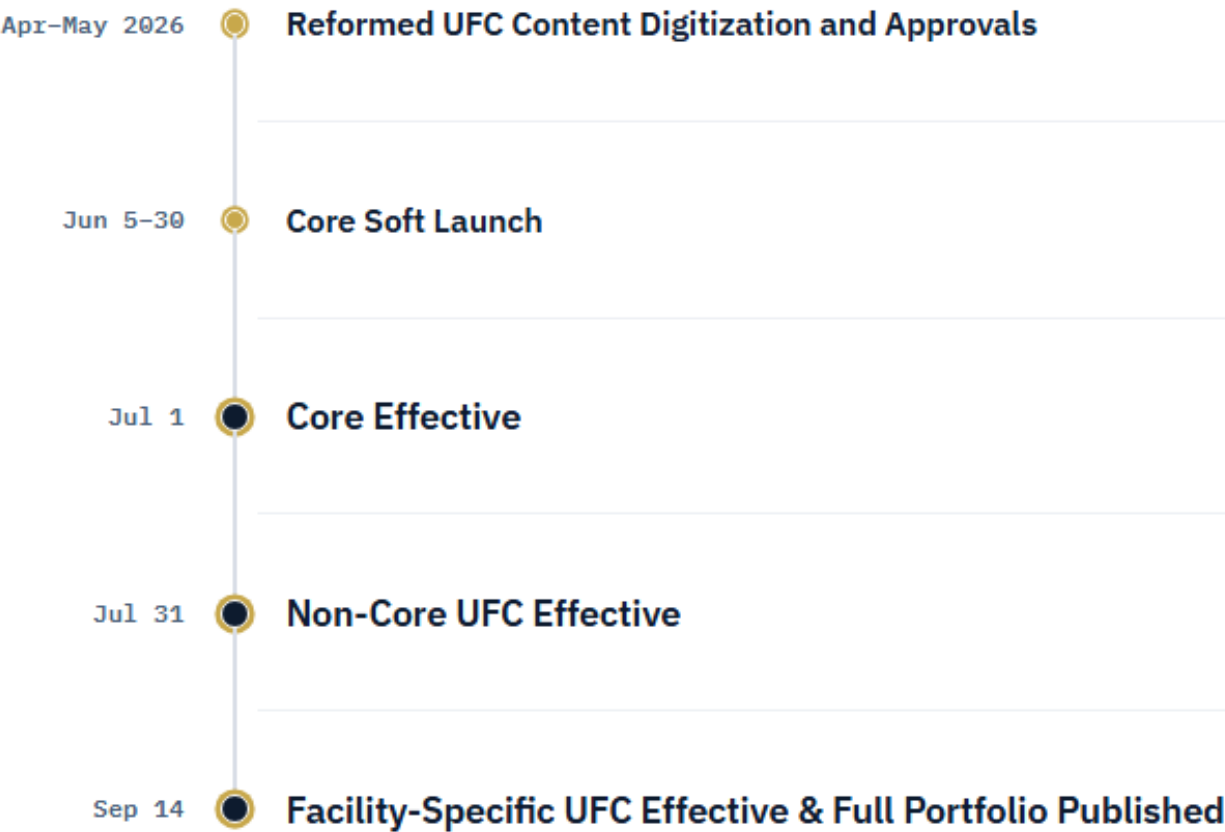


ACTIVE & REFORM DOCUMENTS

UFC — Core	25
UFC — Non-Core	31
UFC — Facility-Specific	41
UFS — Standards	61
UFM — O&M Manuals	21
FC — Criteria	15

TOTAL DOCUMENTS 194

IMPLEMENTATION TIMELINE



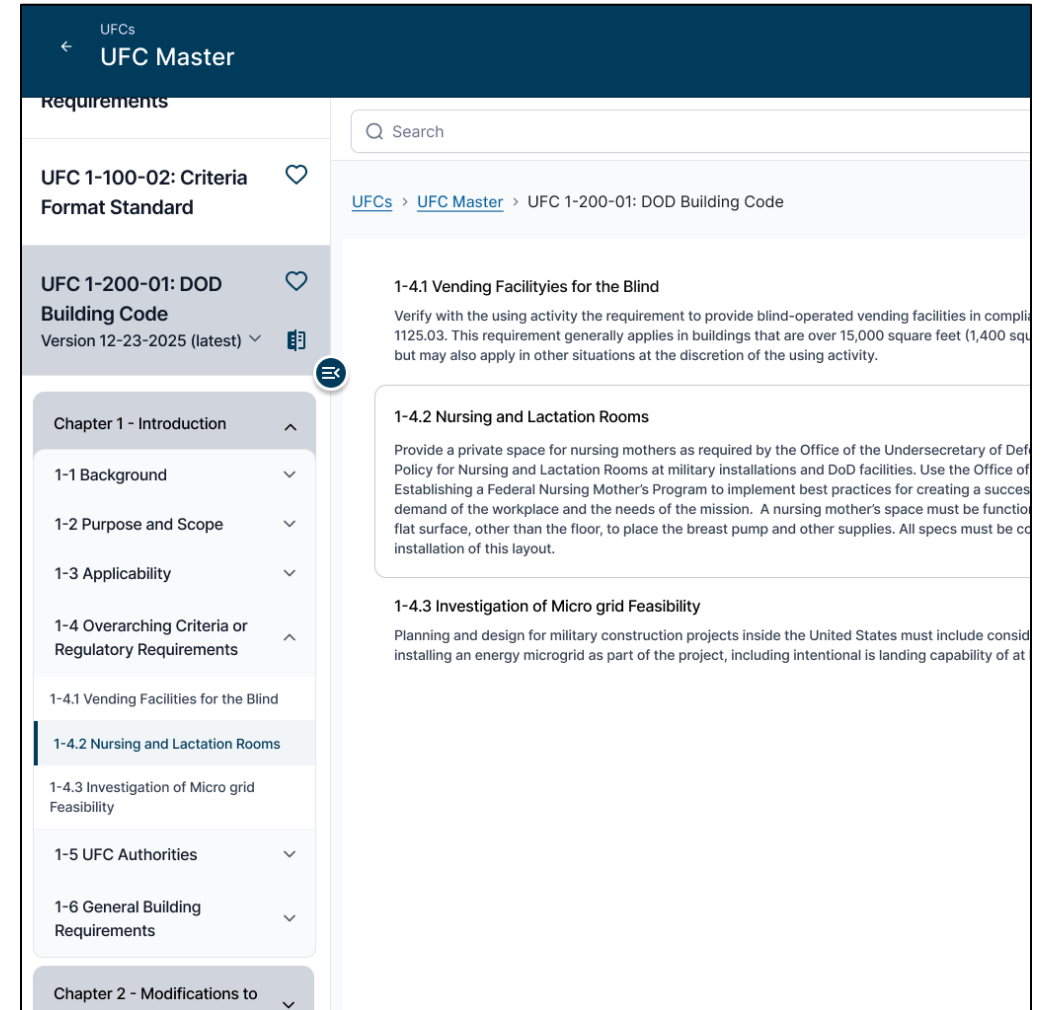


From Documents to Data

An Intelligent & Centralized Platform



A Partnership for Expertise



AI-Driven Digital Engine



For Our Execution Teams and Industry Partners

- Reduced Design Effort & Lower Risk
- Improved Clarity in Bidding and Contracting
- Faster Government Review and Approval Cycles
- Greater Alignment with Industry Standards



For Our Warriors

- **Faster Delivery of Modern Facilities**
- Higher Quality and More Resilient Infrastructure
- Enhanced Mission Readiness



For the American Taxpayer

- Significant Cost Savings
- **Increased Efficiency and Accountability**
- Improved Long-Term Value

Strategic Outcomes

Digital UFC Content Features

 > Department of Defense > Unified Facilities Criteria (UFC) > UFC 3-110-03 Roofing

UFC 3-110-03 Roofing



Unified Facilities Criteria (UFC)

roofing

 View Digital Criteria

Interactive, searchable, always up-to-date

Summary

UFC Digital Content Features

Efficient
Navigation

National Institute of
BUILDING SCIENCES™

Whole Building Design Guide: Innovation Starts Here

WBDG > Department of Defense > Unified Facilities Criteria (UFC) > UFC 3-110-03 v05/29/2026

UFC 3-110-03 Roofing

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Related Material/Superseded Versions

CHAPTER 1 INTRODUCTION

CHAPTER 2 LOW-SLOPE ROOFING DESIGN REQUIREMENTS

CHAPTER 3 STEEP-SLOPE ROOFING DESIGN REQUIREMENTS

CHAPTER 4 ROOF SYSTEM RELATED SHEET METAL FLASHINGS

CHAPTER 5 STANDING SEAM METAL ROOFING (SSMR) SYSTEM DESIGN REQUIREMENTS

CHAPTER 6 RE-ROOFING REQUIREMENTS

UFC 3-120-10 Interior Design

UFC 3-190-06 Protective Coatings and Paints

3-200: Civil / Geotechnical / Landscape Architecture

Search document...

CHAPTER 1 INTRODUCTION

1-1 PURPOSE AND SCOPE.

Use this UFC in conjunction with the current editions of the National Roofing Contractors Association (NRCA) Roofing Manuals (NRCA Manual) and the NRCA technical bulletins and the Metal Building Manufacturers Association (MBMA) *Metal Roofing Systems Design Manual* (MBMA Roofing Manual) to provide specific design guidance for Government roofing projects. This UFC explains how to apply the NRCA Manual and the MBMA Roofing Manual to the design of Government projects (including Army, Navy, and Air Force).

1-2 SYSTEM DESIGN.

Use the NRCA Manual, and the MBMA Roofing Manual for system selection. Table 1-1 illustrates the relationship of this UFC with the NRCA Manual. Use the MBMA Roofing Manual for the design of metal roof systems in combination with the NRCA Manual.

Table 1-1 RELATIONSHIP WITH NRCA MANUAL

UFC 3-110-03	Primary Design Criteria
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**Related
Materials**

UFS

UFM

**Change
Summaries**

**Superseded
PDF Versions**

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UFC 3-110-03	Primary Design Criteria



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REQUIREMENTS

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Share Link

Table 1-1 RELATIONSHIP WITH NRCA MANUAL

UFC 3-110-03	Primary Design Criteria

> 1 - Policy, Procedures and Guidance

✓ 3 - Discipline-Specific Criteria

✓ 3-100: Architecture and Interior Design

> UFC 3-101-01 Architecture

✓ UFC 3-110-03 Roofing

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UFC 3-110-03	Primary Design Criteria
Chapter 2- Low-slope Roofing Design Requirements (except metal roofing)	The NRCA Manual: Membrane Roof Systems The NRCA Manual: Metal Panel and SPF Roof Systems NRCA Construction Details CD

Expanded
Menu

Submit
CCR

Compare Versions

1 - Policy, Procedures and Guidance

1-200: Policy

UFC 1-200-01 DoD Building Code

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

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Compare

[Related Material/Superseded Versions](#)

CHAPTER 1 FEDERAL STANDARD

CHAPTER 2 GUIDING PRINCIPLES

3 - Discipline-Specific Criteria

4 - Multi-Disciplinary and Facility-Specific Design

Q Search document...



CHAPTER 1 FEDERAL STANDARD

Establish and Track sustainability goals and achievements during planning through design, construction, and post-construction for all projects and report Final Reporting Compliance Status as applicable below.

1-2.1 Reporting Compliance

Report each building's Guiding Principles Final Compliance using each Service's reporting system. Indicate sustainability status when creating or updating the asset record. Report as follows: Annotate each achieved criterion as "Yes" in the DOW HPSB Checklist. When all required criteria are "Yes," report the building as "Sustainable (Yes)" and qualifies as a "sustainable Federal building". Provide justification for each unachieved required criterion in the HPSB Checklist and report as "Not Sustainable (No)". This building is a "Federal high-performance building" until fully meeting all "sustainable Federal building" criteria. Conform all applicable buildings within a project to either "sustainable Federal building" or "Federal high-performance building" requirements. Refer to each DoD Service for reporting systems guidance.

1-2.1.1 DOW HPSB Checklist.

Use the DOW HPSB checklist to track and report compliance for **all** projects regardless of size and complexity. Find the DOW HPSB checklist on the Tri-Services Sustainability Program "Required Tracking – Reporting" page. For each building, revise and submit the DOW HPSB Checklist:

- **Air Force** – and design analysis for each building to AFCEC.CF.SustainableRpt@us.af.mil at each request for proposal, design submittal, and construction completion.
- **Army** – to Armsustainability@USACE.army.mil at 35% and 100% design submittals and construction completion.
- **Navy** – with each Design Submittal, HPSB Checklist Construction Submittals, and when all project HPSB requirements are achieved.

[WBDG](#) > [Department of Defense](#) > [Unified Facilities Criteria \(UFC\)](#) > Compare versions

Compare v06/04/2026 → v07/08/2026

2026-06-04 → 2026-07-08

FROM (OLDER)

v06/04/2026 — Published 2026-06-04

Published 2026-06-04

TO (NEWER)

v07/08/2026 — Published 2026-07-08 (current)

Published 2026-07-08

Comparison Details

All

(3) Changes Only

CHAPTER 1 Federal Standard

1-1 Baseline Sustainability Criteria.

Comply with the Guiding Principles for Sustainable Federal Buildings and Associated Instructions (December 2020) (GPSFB) including appendices.

1-2 HPSB COMPLIANCE TRACKING, REPORTING AND POLICIES.

Establish and Track sustainability goals and achievements during planning through design, construction, and post-construction for all projects and report Final Reporting Compliance Status as applicable below.

CHAPTER 1 Federal Standard

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View
Changes
With
Context

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Compare vJune 4, 2026 → vJuly 8, 2026

2026-06-04 → 2026-07-08

FROM

vJune 4, 2026 — Published 2026-06-04



Published 2026-06-04



TO

vJuly 8, 2026 — Published 2026-07-08 (latest)



Published 2026-07-08

Comparison Details

All

(3) Changes Only

CHAPTER 1 Federal Standard

1-3 Service specific TPC and self certification.

~~Obtain Service-specific third-party certification or self-certification when meeting one threshold below:~~ New Construction and Building Addition (aggregate GSF): Buildings $\geq$ 25,000 GSF (2,323 GSM).
~~Modernizations (Comprehensive Replacement): Existing buildings $\geq$ 25,000 GSF (2,323 GSM) with total cost $>$ \$4M and requiring $\geq$ 50% of Estimated Replacement Cost (ERC).~~ Service-specific compliance

CHAPTER 1 Federal Standard

1-3 Service specific TPC and self certification.

Select one of the Service-specific compliance paths listed below and obtain certification for each building that meets either threshold: New Construction and Building Addition (aggregate GSF): Buildings $\geq$ 25,000 GSF (2,323 GSM). Modernizations (Comprehensive Replacement): Existing buildings $\geq$ 25,000 GSF (2,323 GSM) with total cost $>$ \$4M and requiring $\geq$ 50% of Estimated Replacement Cost

View
Changes
Only

Export the material with JSON, with CSV and ReqIF coming online later in August



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Search document...

CHAPTER 1 INTRODUCTION

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Export ^

Generate Snapshot

JSON

CSV (coming soon)

ReqIF (coming soon)

WBDG Whole Building Design Guide

×

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Please enter your details.

Email or username

Enter your email or username

Password

.....

☐ Remember for 30 days

[Forgot password?](#)

☐ I'm not a robot


reCAPTCHA

Sign in

Don't have an account? [Create one](#) →

**Create a WBDG Log-in to
access the following tools**

After Logging-in on WBDG.org,
Navigate to the UFC Landing
Page of interest.



WBDG
Whole Building
Design Guide

Home > Department of Defense > Unified Facilities Criteria (UFC) > UFC 1-200-02 High Performance and Sustainable Building Requirements

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

View Digital Criteria

Interactive, searchable, always up-to-date

Unified Facilities Criteria (UFC)

sustainable

Summary

Digital UFC Content is active for project delivery teams. Refer to UFC 1-200-01 for project applicability. See Related Materials for Change Summary Sheet.

Select Profile at the top right
corner to view saved items

Profile

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Bookmarks

Change Requests

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🔍 VERSION

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DESIGN REQUIREMENTS

> CHAPTER 3 STEEP-SLOPE
ROOFING DESIGN REQUIREMENTS

> CHAPTER 4 ROOF SYSTEM
RELATED SHEET METAL FLASHINGS

> CHAPTER 5 STANDING SEAM METAL
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REQUIREMENTS

> CHAPTER 6 RE-ROOFING
REQUIREMENTS

> **UFC 3-120-10 Interior Design**

> **UFC 3-190-06 Protective Coatings
and Paints**

> **3-200: Civil / Geotechnical /
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CHAPTER 1 INTRODUCTION

1-1 PURPOSE AND SCOPE.

Use this UFC in conjunction with the current editions of the National Roofing Contractors Association (NRCA) Roofing Manuals (NRCA Manual) and the NRCA technical bulletins and the Metal Building Manufacturers Association (MBMA) *Metal Roofing Systems Design Manual* (MBMA Roofing Manual) to provide specific design guidance for Government roofing projects. This UFC explains how to apply the NRCA Manual and the MBMA Roofing Manual to the design of Government projects (including Army, Navy, and Air Force).

1-2 SYSTEM DESIGN.

Use the NRCA Manual, and the MBMA Roofing Manual for system selection. Table 1-1 illustrates the relationship of this UFC with the NRCA Manual. Use the MBMA Roofing Manual for the design of metal roof systems in combination with the NRCA Manual.



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Table 1-1 RELATIONSHIP WITH NRCA MANUAL

UFC 3-110-03	Primary Design Criteria

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1-1 PURPOSE AND SCOPE.

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CHAPTER 1 FEDERAL STANDARD

1-1 BASELINE SUSTAINABILITY CRITERIA.

Comply with the Guiding Principles for Sustainable Federal Buildings and Associated Instructions (December 2020) (GPSFB) including appendices.

1-2 HPSB COMPLIANCE TRACKING, REPORTING AND POLICIES.

Establish and Track sustainability goals and achievements during planning through design, construction, and post-construction for all projects and report Final Reporting Compliance Status as applicable below.

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CHAPTER 1 FEDERAL STANDARD

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WBDG Training Example

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Conclusions

Key Takeaways

Modernized WBDG – Modernized Criteria



WBDG – The Authoritative Source

The WBDG continues to be the authoritative source for Federal Facility Criteria.

NIBS has invested to improve **Security, Functionality, and Access.**

We appreciate your feedback and will continue to update our system.



The reform is producing measurable results.

UFC page volume is down 73 percent, and 94 percent of criteria is now aligned to industry standards. Core UFCs went effective July 1, with the full portfolio on track for September.



The digital UFC platform is built for people and machines.

The new platform gives the AEC community a human-readable interface and a structured, searchable database with an open API, semantic search, and version comparison, built in partnership with NIBS.



Success depends on the people in this room.

AEC feedback during rollout, CCR submissions, and day-to-day use of the platform are what will make this system work.



What Digital Criteria Delivers

Improved navigation between UFC technical content

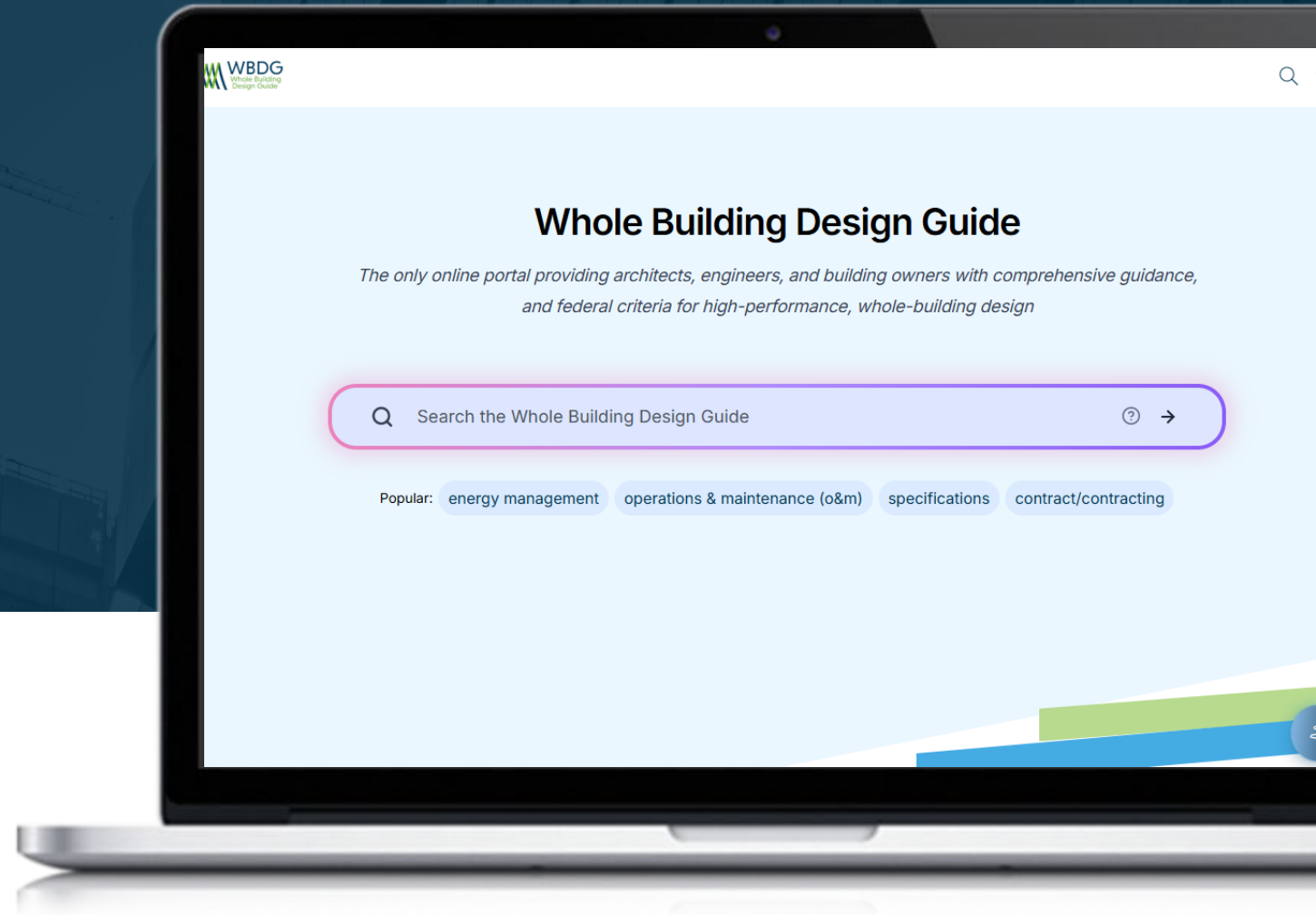
Enhanced digital tool set for sharing and saving UFC text

Focused change request submissions

Coordinated version control of digital content

NIBS and the Tri-services have a Committed Approach to Partnership and Improvement

Q&A (Time Permitting)



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Thank You