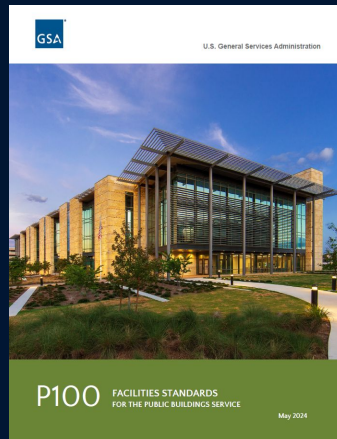




2024 P100 Training



This session is being recorded.

P100 A+E Training Series Ground Rules

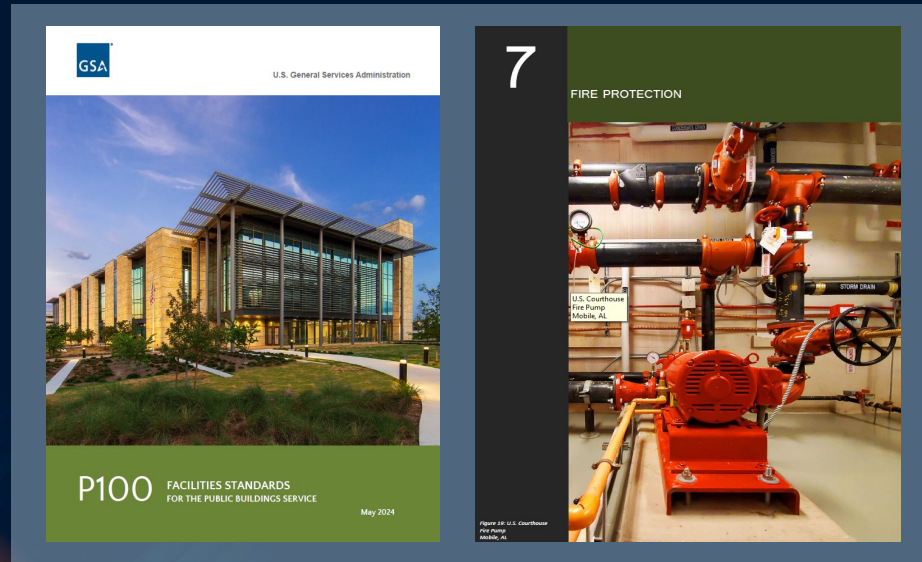
- Attendance will be taken automatically; there is no sign-in sheet
- GSA Participants who attend 95% of the session will be provided CLPs
- If you join by phone, please email your name and the phone number you joined with so we can record your attendance. Address email to: mark.kutchi@gsa.gov & benjamin.pisarcik@gsa.gov
- Mute microphone when not speaking
- Use Q & A to ask questions; questions will be taken at specific intervals throughout and at the end of the presentation

P100 A+E Training Series Ground Rules

- Approach each topic in a positive and constructive manner
- Slides and recordings will be made available after the session internally on Insite and publicly on: www.gsa.gov/p100.
- Slides will be added in a few days but recordings will take a few weeks.
- We are starting the meeting recording, please leave the meeting if you do not consent to being recorded.

2024 P100 Training

Fire Protection



This session is being recorded.

Presenters

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01

Key Fundamental Topics

Overview & Reminders

Key Fundamental #1

OVERVIEW of P100

- P100 Compliance is Mandatory
- Current State of Design Practice For GSA Facilities
- Applicable Regardless of Funding Source



Key Fundamental #2

SECTION 7.1.3.2, ROLE OF REGIONAL FIRE PROTECTION ENGINEER

- GSA Regional Fire Protection Engineer
 - For All projects, functions as responsible party to make interpretations and enforcement decisions regarding fire protection issues
 - Referenced in Codes as Building Official, Fire Code Official or Authority Having Jurisdiction (AHJ)
- PBS 5921.1, Public Buildings Service, Fire Protection Program Policy



Key Fundamental #3

SECTION 1.2.4.1, WAIVERS

- Fire Protection Waivers are **NOT** Permitted
- In Lieu of Waivers, an Alternative & Equivalency Compliance Solution Must be Submitted for Deviations From P100 Requirements
 - See Section 1.2.4.2, Alternative & Equivalent Compliance



Key Fundamental #4

SECTION 1.2.4.2, ALTERNATIVE & EQUIVALENT COMPLIANCE

- Use in Lieu Of Waivers For Deviations From Fire Protection Requirements
- Proposed Alternatives Must be Recognized as Being an Equivalent Design Solution to Meeting Intent of P100 Requirements
- Requests Must Include a Concurrence Signature From the Regional Fire Protection Program Office & Follow a Similar Approval Process as the Waiver Process.



Key Fundamental #5

SECTION 1.5, LOCAL JURISDICTION REVIEW

- Design Review for Code Compliance by State and/or Local Government Officials
- GSA Will Review All Recommendations Made by State & Local Government Officials



Key Fundamental #6

SECTION 7.1.3.1, PROJECT TEAM FIRE PROTECTION ENGINEER

- Project Team Fire Protection Engineer
 - Must be qualified
 - Be a licensed engineer in fire protection
 - Have 3 consecutive years of experience in fire protection engineering
 - Must be full participant for the project
 - Be a full participant for each phase of project, concepts through occupancy



Key Fundamental #7

SECTION 7.1.3.4, CERTIFICATE OF OCCUPANCY

- Applies to ALL New Construction, Major Renovation & Alteration Projects, , Ect.
- Regional Fire Protection Program Office Issues Certificate of Occupancy to Regional Project Management Team
- Issued Prior to Tenant Occupancy
 - Temporary
 - Final

1. CERTIFICATE NUMBER F - _____ - _____		
2. PROPERTY NAME	3. PROPERTY ADDRESS	4. CITY, STATE, ZIP CODE
5. GSA PROJECT MANAGER		6. SPECIFIC AREA OF BUILDING FOR THIS CERTIFICATE
7. APPROVED USES		8. PREVIOUS USES
9. APPROVED OCCUPANCIES		10. PREVIOUS OCCUPANCIES
11. TYPE: (Check One) New Construction <input type="checkbox"/> Renovation <input type="checkbox"/> Change of Occupancy <input type="checkbox"/>	12. OCCUPIED AREA	13. DESIGN OCCUPANT LOAD
14. SPRINKLERS REQUIRED? Yes <input type="checkbox"/> No <input type="checkbox"/>	15. SPRINKLERS INSTALLED? Yes <input type="checkbox"/> No <input type="checkbox"/>	16. BUILDING CODE NAME AND EDITION
17. TYPE OF CONSTRUCTION		
18. DESCRIPTION OF USE		
19. SPECIAL STIPULATIONS OR CODE MODIFICATIONS		
<small>This certificate ensures that all fire protection and life safety systems have been completed, inspected, successfully tested and approved for the specific area of the building specified above to provide a reasonable degree of safety to the occupants from fire and similar emergencies.</small>		
20. NAME OF GSA APPROVING OFFICIAL	21. SIGNATURE	22. DATE
THIS CERTIFICATE IS VALID ONLY FOR THE PREMISES OF THE PROJECT ADDRESS		
GENERAL SERVICES ADMINISTRATION		
GSA 3686B 9/2006		

Questions on Section 1





02

**2024 P100 Chapter
7**

Significant Updates

PROJECT TEAM FIRE PROTECTION ENGINEER

SECTION 7.1.3.1

- New Additional Responsibilities
 - Must review all submittals related to fire protection systems
 - Must review all RFIs & change orders
 - Must verify by inspection that all fire protection systems (FPS) installed met design requirements
 - Must participate in witnessing preliminary testing of FPS and confirm results met the design parameters



FIRE ALARM & EMERGENCY COMMUNICATION SYSTEMS

SECTION 7.6, Special Requirement #4

- Revised to Address Plain Old Telephone Service (POTS) Going Away
 - Affects analog phone service using copper lines
 - Carriers are no longer supporting analog copper telephone lines
- Solution Permits Usage of GSA Network With the Use of a GSA-IT Remediated & Approved Dual Path Fire Alarm Communicator to Transmit Fire Alarm Signals to a Supervising Monitoring Station



MANUAL FIRE ALARM BOXES

SECTION 7.6.1, Special Requirement #2

- Revised to Address Unwanted Fire Alarm System Activations in Public Areas on First Floor
- Requires Listed Protective Cover With Built-in Warning Horn That Sounds When Cover is Lifted to Gain Access
 - Solution prevents unwanted fire alarm system activations without restricting legitimate operation



PORTABLE FIRE EXTINGUISHERS

SECTION 7.9.5, Special Requirement

- New Additional Areas Required Within a Building to Have Portable Fire Extinguishers Installed
 - Electrical rooms, energy storage system rooms, kitchens, & kitchenettes with cooktops or stoves
- Revised to Clarify the Overall Intent of Not Requiring Installation of Portable Fire Extinguishers in Buildings Protected Throughout with Quick Response Sprinklers
 - Public & common areas, general office areas, courtrooms, judge's chambers, etc.



ELEVATOR SYSTEMS

SECTION 7.10, Special Requirements #1 & #2

- Special Requirements Revised Based on Input From Manager, Vertical Transportation Program
- Special Requirement #1 – Added MRL Elevators to List Of Areas Required to be Protected By Automatic Sprinklers, Unless Not Required by GSA Regional Fire Protection Engineer
- Special Requirement #2 - Automatic Sprinklers Are Not Required to be Installed at the Bottom or Top of Elevator Hoistway Unless Required by GSA Regional Fire Protection Engineer



OCCUPANT EVACUATION ELEVATORS



SECTION 7.10.2, Special Requirement #2

- Special Requirements Revised Based on Input From Manager, Vertical Transportation Program
- Special Requirement #2 – Added a Monitor Within Elevator Control Room to Identify Occupant Evacuation Elevator Functions for Acceptance Testing, and General Maintenance and Testing Procedures
 - Based on GSAs experience with Occupant Evacuation Elevator Installations

INFORMATION TECHNOLOGY EQUIPMENT ROOMS

SECTION 7.11.2

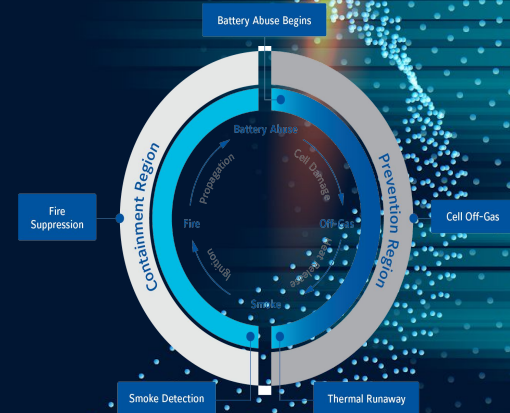
- Revised Section to Clarify that Information Technology Equipment & Their Associated Rooms or Areas Must be Designed in Accordance With NFPA 75 to Address Fire & it's Associated Effects of Smoke, Heat, & Water
- Permits Project Team Fire Protection Engineer to Utilize Prescriptive-based & Performance-based Approaches to Determine Construction, Fire Suppression & Detection, & Utility Requirements for These Areas



STATIONARY ENERGY STORAGE SYSTEMS

SECTION 7.11.11, Special Requirements #1 & #2

- New Special Requirements 1 & 2 for When Energy Storage Systems (ESS) are Installed in Non-dedicated Buildings
 - Project Team Fire Protection Engineer must develop a hazard mitigation analysis demonstrating the safety of the ESS installation
 - Must be approved by Regional Fire Protection Program Office
 - Electrochemical energy storage systems must utilize maintenance free batteries
 - Based on GSA's experience, previous field issues, & past fire incidents



PARKING STRUCTURES (NEW)

SECTION 7.11.12, Special Requirements #1 & #2

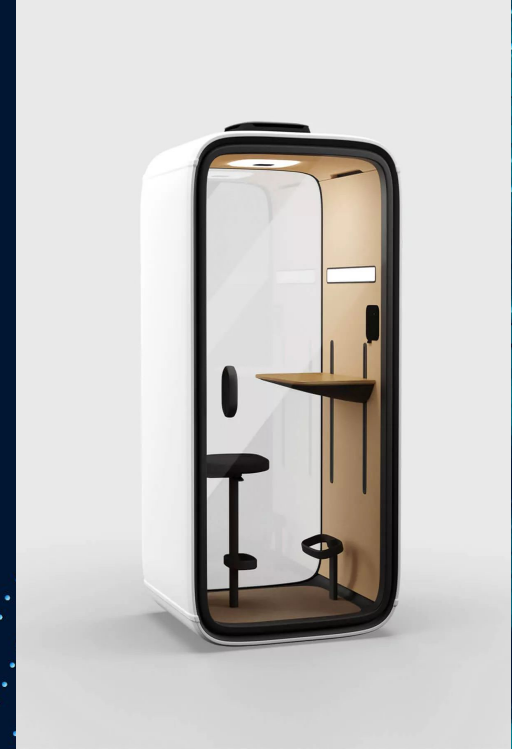
- ALL Parking Structures Must be Protected Throughout by an Automatic Sprinkler System
 - Includes open & enclosed parking structures
- ALL Parking Structures Must be Provided with a Class 1 Standpipe System



MODULAR ROOMS (NEW)

SECTION 7.11.13, Special Requirements #1, #2, #3, & #4

- Modular Rooms Installed in Existing Rooms or Spaces Having Sprinkler Protection Must Also be Sprinklered in Accordance with NFPA 13
 - Affects modular rooms > 24 square feet
- Occupants Within Modular Rooms Must be Able to be Alerted of a Fire or Other Emergencies
 - Consult Regional Fire Protection Program Office for Advice
- Location of Modular Rooms Must Not Obstruct, Access to, Egress From, or Visibility of Exits
- Minimum Separation Distance Between Modular Rooms is 18 Inches



SLEEP PODS (NEW)

SECTION 7.11.14

- Sleep Pods Are Not Permitted to be Installed Within GSA-Controlled Space



ELECTRIC VEHICLE SUPPLY EQUIPMENT (NEW)

SECTION 7.11.15

- References Chapter 8, for The Fire Protection Requirements for Electric Vehicle Supply Equipment Projects



CARBON MONOXIDE DETECTION (NEW)

SECTION 7.15

- Carbon Monoxide Detection Must Be Installed in Accordance with the Requirements in the IBC, IMC, and NFPA 72

Questions on Section 2





Contact speakers at:

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 - Todd Roeder - todd.roeder@gsa.gov
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