

Summary of Modifications/Changes in this Update

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U.S. Department of Veterans Affairs ♦ Office of Construction & Facilities Management

DATE OF THIS VERSION:

October 1, 2020, revised September 1, 2021

TITLE OF DOCUMENT:

Physical Security and Resiliency Design Manual

DATE OF VERSION BEING SUPERSEDED (old):

October 1, 2020, revised April 1, 2021

DESCRIPTION OF DOCUMENT (previous title, number, other identifying data):

Physical Security and Resiliency Design Manual

SUMMARY OF CHANGES IN THIS VERSION:

1. Table 1-2 MC Facilities: Deleted “Emergency Command Center” from the table.
2. Table 1-5 Facilities with/Varying Designations: Under “Warehouse”, revised the Note from

“Default designation is LSP. Designation must be upgraded to LSP w/ MC Utilities/Systems Redundancies when storage includes caches (all-hazards emergency cache, pharmacy cache), controlled and sensitive material/substances deemed critical to continuity of operation.”

to

“Default designation is LSP. Designation must be upgraded to LSP w/ MC Utilities/Systems Redundancies when storage includes controlled and sensitive material/substances deemed critical to continuity of operation.”

3. Table 2-1 Project Scopes/Requirements:

- a. Lines 4 and 5: Added “of multiple floors” after “Alteration/renovation”
- b. Line 6: Revised Project Scope from “Alteration/renovation (≥50% of area of one single floor of an existing building)” to “Alteration/renovation of a single floor (≥50% of area of the floor of an existing building)”
- c. Line 7: Revised Project Scope from “Alteration/renovation (<50% of area of one single floor of an existing building)” to “Alteration/renovation of a single floor (<50% of area of the floor of an existing building)”
- d. Added Line 21.

Project scope: “Replacement and alteration of buried utilities and buried equipment”.

Baseline Physical Security & Resiliency Requirements: “For buried utilities and buried equipment, when the project scope does not include alteration of the ground/road surface or site condition, upgrading the surface or site condition to comply with the PSRDM is not required. When buried utilities/equipment are modified (e.g. rerouted, replaced) as part of the project scope, or where the ground/road surface adjacent to or above buried utilities is modified as part of the project scope, comply with the requirements of Section 7.2.5 only for the portion of the utility being modified or the portion below or adjacent to the work area.”

4. Section 5.2 Caches: All-Hazards Emergency Cache and Pharmacy Cache: Added a 3rd paragraph as follow:

“To ensure the protection and availability of pharmacy cache and all-hazards cache for the continuity of operations, facilities are required to conduct a risk analysis of the location(s) where pharmacy cache and all-hazards cache are planned to be stored. The risk analysis must assess at a minimum, the level of compliance (i.e. in full, partially, or not at all) with the requirements for the building physical security and resiliency designation (i.e. MC, LSP, LSP w/ MC Utilities/Systems Redundancies), and whether those requirements are sufficient to ensure continuity of operations in terms of the cache. The risk analysis must also assess how the facility will protect and ensure access to the pharmacy cache and all-hazards cache for continuity of operations as part of the facility’s emergency management program. All other requirements stipulated in the PSRDM for caches must be followed.”

5. Section 5.7.1.2: Replaced “Fire or Incident Command Centers” with “Fire Command Center or Incident Command Center/Emergency Operations Center”

6. Section 5.8 Fire Command Center, 1st paragraph: Added “(equivalent to Emergency Command Center defined in NFPA 101)” after “FCC”.

7. Section 5.9 Incident Command Center: Replaced the heading “Incident Command Center” with “ Incident Command Center (ICC)/Emergency Operations Center (EOC)”.

8. Sections 5.9.1, 5.9.3.3, 5.9.4, and 5.9.5: Replaced “Incident Command Center” or “ICC” with “ICC/EOC”.

9. Sections 5.10.1.1 and 5.11.1.2 Prohibited Adjacencies: Replaced “Incident Command Center” with “Incident Command Center/Emergency Operations Center”.

10. Section 7.2.7:

- a. Replaced the heading “Alteration/Renovation of Existing Facilities — Column Protection” with “Alteration/Renovation of Existing Facilities”.
- b. Added a 3rd paragraph, “The location and site conditions of buried utilities/equipment must be evaluated to meet the requirements of section 7.2.5 Buried Utilities and Buried Equipment when the project scope includes site work associated with the facility being renovated. Reference Table 2-1 for requirements associated with work taking place to a portion of a system or utility.

11. Section 8.6 Protection of Utilities and Equipment: Revised the 1st paragraph from

“Protect all water and fuel storage, water/fuel pumping, metering, and regulating equipment with blast-resistant screen walls or barriers that comply with section 6.2 Non-Load Bearing Exterior Walls and section 7.2.4 Screen Walls and Penthouse Structure. At-grade storage or supporting equipment must comply with section 3.3 Standoff Requirements and section 3.6 Anti-Ram Rated Vehicular Barriers. For elevated water towers, fence is acceptable as a barrier and a blast resistant wall is not required. All tanks must remain functional and accessible during emergencies”

to

“Protect all fuel storage, water/fuel pumping, metering, and regulating equipment with blast-resistant screen walls or barriers that comply with section 6.2 Non-Load Bearing Exterior Walls and section 7.2.4 Screen Walls and Penthouse Structure. At-grade storage (for water and fuel) or supporting equipment must comply with section 3.3 Standoff Requirements and section 3.6 Anti-Ram Rated Vehicular Barriers. For water storage (including elevated water towers and storage tanks), provide fence at a minimum as a pedestrian barrier; a blast resistant wall is not required. All tanks must remain functional and accessible during emergencies.”

12. Section 9.2.2.3:

- a. Revised the section heading from “Hurricane Areas” to “Hurricane-Prone and Wind-Borne Debris Regions”.
- b. In the first sentence, replaced “areas prone to hurricanes or wind debris hazards” with “hurricane-prone regions and wind-borne debris regions”.

13. Section 9.2.3 Alteration/Renovation of Existing Facilities – HVAC Systems: Replaced “Hurricane Areas” with “Hurricane-Prone and Wind-Borne Debris Regions”.
14. Section 9.3.3.1 Standby Electrical Systems: Replaced “regions prone to hurricanes” with “hurricane-prone regions”.
15. Section 10.1.5 Requirements for Subject Matter Specialists: Added “See Chapter 10 Annex A-10.1.5 for specialist certification organizations” at the end of paragraph.
16. Annex to Chapter 10: Added new Section A-10.1.5.

A-10.1.5 Specialists Certification Organizations: The following table lists organizations for specialist certifications required in this manual.

Specialists Certifications	Certification Organizations	PSRDM Sections
Certified Protection Professional (CPP)	American Society for Industrial Security (ASIS) International, https://www.asisonline.org/	2.2
Physical Security Professional (PSP)	American Society for Industrial Security (ASIS) International, https://www.asisonline.org/	2.2, 10.1.5.3
Global Industrial Cyber Security Professional (GICSP)	Global Information Assurance Certification (GIAC), https://www.giac.org/	10.1.5.1
Certified Information Systems Security Professional (CISSP)	International Information System Security Certification Consortium (ISC) ² , https://www.isc2.org/	10.1.5.1
Registered Communications Distribution Designer (RCDD®)	Building Industry Consulting Service International (BICSI), https://www.bicsi.org/	10.1.5.2
Certified System Integrator (CSI)	Control System Integrators Association (CSIA), https://www.controlsyst.org/	10.1.5.3

Certified Fire Alarm Designer (CAFD)	Electronic Security Association (ESA), https://esaweb.org/	10.1.5.3
Certified Service Technician (CST)	Electronic Security Association (ESA), https://esaweb.org/	10.1.5.3

17. Chapter 11 GLOSSARY & ACRONYMS:

- a. Updated the definitions for:
 - i. Cache
 - ii. Emergency Operations Center (EOC)
 - iii. Fire Command Center (FCC)
 - iv. Hospital Command Center (HCC)
 - v. Incident Command Center (ICC)
 - vi. Incident Command Post
- b. Replaced the definition for “Hurricane Areas” with the definition of “Hurricane-Prone Regions”.
- c. Added the definition for “Wind-Borne Debris Regions”.

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U.S. Department of Veterans Affairs ♦ Office of Construction & Facilities Management

DATE OF THIS VERSION:

October 1, 2020, revised April 1, 2021

TITLE OF DOCUMENT:

Physical Security and Resiliency Design Manual

DATE OF VERSION BEING SUPERSEDED (old):

October 1, 2020, revised January 1, 2021

DESCRIPTION OF DOCUMENT (previous title, number, other identifying data):

Physical Security and Resiliency Design Manual

SUMMARY OF CHANGES IN THIS VERSION:

1. Section 1.4.1 Physical Security and Resiliency Designations for VA Facilities: Replaced “Exempt Facilities” with “Partially Exempt Facilities”.
2. Section 1.4.1.5, 1st paragraph:
 - a. Replaced “Exempt Facilities: These facilities are exempt from the requirements of this manual” with “Partially Exempt Facilities: These facilities are exempt from specific requirements in this manual as indicated in Table 1-6 below . The facilities must comply with applicable requirements for LSP facilities in other chapters and sections”.
3. Section 1.4.1.5, Table 1-6:
 - a. Changed the table title from “Exempt Facilities” to “Partially Exempt Facilities”.
 - b. In Maintenance Storage (Non-biomedical Equipment), added “and Non-Mission Critical Equipment Support”.
 - c. Deleted “Sheds and relocatable buildings” from the list of facilities.

- d. Added two columns to the table to indicate the specific requirements being exempted.
4. Table 1-8 National Cemetery Administration Criteria and Requirements: In the “NCA Facility Type/Service” column, added “(for potable water, not irrigation)” after “Water supply”.
5. Added “Certain non-medical buildings may be exempt from the requirements of this chapter or section(s) in this chapter. Refer to Section 1.4.1.5 Partially Exempt Facilities for details” to the following paragraphs:
 - a. Section 3.1, end of 3rd paragraph
 - b. Section 4.1, end of 5th paragraph
 - c. Section 6.1, end of 4th paragraph
 - d. Section 7.1, end of 5th paragraph
 - e. Section 8.1, end of 3rd paragraph
 - f. Section 9.1, end of 3rd paragraph
 - g. Section 10.1, end of 4th paragraph
6. Section 5.6 Emergency and/or Standby Generator Room, 2nd paragraph: Deleted “EXCEPTION: Self-enclosed (weather enclosure), skid-mounted generator sets are NOT required to meet hardening or stand-off distance requirements” from the 2nd bullet point.
7. Chapter 6 Annex: Replaced the section number “A-6.1.2g” with “A-6.1.3” to align with Section 6.1.3, 2nd paragraph regarding exterior stairwells/walkways.
8. Section 7.1.2 Applicability and Exempted Structures: Replaced “ASCE 59-11” with “ASCE/SEI 59-11”.
9. Section 7.3.2 Base Shear Calculation: Added the following notes after the equation:

“Notes:

 - 1) The value of Response Modification Coefficient, R, from ASCE/SEI 7 for Seismic Force-Resisting Systems will be used for the design ductility μ .
 - 2) The following load cases must be included:
 - Load Case 1, façade blast load: The total impulse collected on the façade and transferred to the building’s lateral system must be based on the greater of the GP blast load or the balanced design load (see Chapter 6).
 - Load Case 2, structure blast load: The total impulse transferred to the building’s lateral system must include the blast load calculated based on W at standoff distance, applied to the perimeter primary structural components that are part of the building enclosure. Structural components must be considered part of the

building enclosure if they are not protected by a blast resistant façade or if their exterior face is less than 6 inches from the interior face of the blast resistant façade.”

10. Section 7.5.1 Vehicle Barriers, 1st paragraph: Replaced “section 3.5 Anti-Ram Rated Vehicle Barriers” with “section 3.6 Anti-Ram Rated Vehicle Barriers” in the last sentence.
11. Replaced “ASCE7-10” with “ASCE/SEI 7” in the following locations:
 - a. Section 9.2.2.3 Hurricane Areas
 - b. Section 9.3.3.1 Standby Electrical System
 - c. Chapter 11 Glossary & Acronyms – Hurricane Areas
12. Chapter 12 References - American Society of Civil Engineers (ASCE): Replaced “ASCE/SEI 7, Minimum Design Loads for Buildings and Other Structures (Third Printing)” with “ASCE/SEI 7, Minimum Design Loads and Associated Criteria for Buildings and Other Structures”.
13. Appendix B Security System Application Matrix: Deleted “(Wells)” after “Water Supply Systems” under National Cemetery Administration.

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October 1, 2020, revised January 1, 2021

TITLE OF DOCUMENT:

Physical Security and Resiliency Design Manual

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October 1, 2020

DESCRIPTION OF DOCUMENT (previous title, number, other identifying data):

Physical Security and Resiliency Design Manual

SUMMARY OF CHANGES IN THIS VERSION:

1. Updated the Authority Having Jurisdiction (AHJ) for VHA.
2. Added Facility Designations for Medical Records Storage in standalone central storage facilities in Table 1-2 and Medical Records Storage within other facilities in Table 1-5.
3. Added new section, 7.2.5 Buried Utilities and Buried Equipment, and re-numbered two subsequent existing sections.
4. Updated the title of section 8.6. Added language in section 8.6 to reference the new section 7.2.5.

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Physical Security and Resiliency Design Manual

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January 1, 2015

DESCRIPTION OF DOCUMENT (previous title, number, other identifying data):

Physical Security Design Manual for VA Mission Critical Facilities
Physical Security Design Manual for VA Life-Safety Protected Facilities

SUMMARY OF CHANGES IN THIS VERSION:

1. Major Reorganization: This Design Manual provides the physical security and resiliency requirements for VA facilities in one volume instead of two volumes for the 2015 edition. Each chapter contains the requirements for facilities of various designations.
2. Update of Requirements: Many requirements in all chapters and disciplines have been updated.
3. Update of Definitions: "Mission Critical Facilities (MC)", "Life-Safety Protected Facilities (LSP)", and "LSP Facilities with MC Utilities/Systems Redundancies" are defined in the beginning of Chapter 1 and in Chapter 11.
4. Major update of the list of VA facilities and the Physical Security & Resiliency Designations: Section 1.4 lists the VA facilities according to the following designations:
 - a. MC Facilities
 - b. LSP Facilities w/ MC Utilities/Systems Redundancies
 - c. LSP Facilities
 - d. Facilities w/ Varying Designations
 - e. Exempt Facilities

5. New Chapter 2 - Direction on Using the Physical Security and Resiliency Design Manual: This new chapter addresses coordination of risk assessments and planning. Table 2-1 addresses requirements applicability for various project scopes.
6. Chapter Annexes: Additional information on topics are provided in chapter annexes.