

SWDIV F1000tg
Exterior Site Related Physical Security Systems
Technical Guide

04/02

1. GENERAL: Physical Security requirements for new construction should be identified during the planning stage and included in the project design. Navy Physical Security and Loss Prevention Manual, OPNAVINST 5530.14B, requires that plans for new construction and modification/upgrade be reviewed by the activity security officer/provost marshal or designated representative during the design process and various review phases. The SOUTHWESTNAVFACENGCOM Physical Security Design Engineer/ Point of Contact may also review project designs which have significant physical security requirements or features.

2. DESIGN CRITERIA: Physical security is concerned with limiting, controlling, or preventing personnel access to specific areas. Almost every project design involves Physical Security to some degree. Major projects for Physical Security enhancements and/or upgrades are usually easily identifiable as such; however, the requirement for Physical Security Features may be less apparent on many smaller projects.

Exterior Site Related Physical Security addresses the outermost elements of a "Physical Security System" of features between the Site Perimeter and the Facility containing the assets to be protected. External security requirements in many cases depend on internal security measures and on the type of protection required. Normally, external considerations, including building location and orientation and the use of protective barriers and lighting, are developed as part of the facility's security plan within the overall Installation/Base Security Plan and should be identified in the supporting Project Planning Documentation for the facility.

The following Design Criteria shall be utilized by the Designer in developing all Project Designs. While not every project will include every Physical Security consideration and/or feature, they are the Designer's "road map" in identifying and designing to at least minimum requirements.

(a) MIL-HDBK-1013/1A, "DESIGN GUIDELINES FOR PHYSICAL SECURITY OF FACILITIES".

This Criteria Manual provides guidance to ensure that appropriate physical security considerations are included in the design of facilities. It includes general overviews and guidance for both the Pre-Design and Design phase efforts. Specific technical sections include exterior site physical security, building physical security, ballistic attack hardening, standoff weapon hardening, and bomb blast hardening.

The manual also includes a design flow chart that outlines a recommended procedure for designing an integrated physical security "system", commencing with a "preliminary layout of site and building" and continuing through the numerous site related considerations. There is also a set of worksheets to aid the design process by evaluation of site and building construction options.

(b) MIL-HDBK-1013/10, "DESIGN GUIDELINES FOR SECURITY FENCING, GATES, BARRIERS, AND GUARD FACILITIES".

This Criteria Manual provides the latest state-of-the-art criteria for security fencing, gates, barriers, and guard facilities and is primarily intended for use by NAVFACENGCOM design engineers and architectural and engineering firms. The contents cover specific criteria to be used during the selection, design, and construction of security fencing, gates, barriers, and guard facilities for

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perimeter boundaries of Navy and Marine Corps installations or separate activities and for designated restricted areas.

This Criteria Manual supersedes the security-related portions of older NAVFAC Design Manual (DM) 5.12, "Fencing, Gates and Guard Towers", dated October 1979.

(c) Various Facility Design Criteria/Military Handbooks (MIL-HDBK's) for other Civil Engineering Design Features or Facilities in the MIL-HDBK-1005/xx Series which have Paragraphs which also address Physical Security requirements. Some examples of such include MIL-HDBK-1005/3 "DRAINAGE SYSTEMS" and MIL-HDBK-1005/13 "HAZARDOUS WASTE STORAGE FACILITIES".

(d) Various Facility Design Criteria/Military Handbooks (MIL-HDBK's) for other specific types of Facilities in other MIL-HDBK-10xx/xx Series which have Paragraphs that also address site Physical Security requirements and considerations for that type of Facility. Some examples of such include MIL-HDBK-1012/1 "ELECTRONICS FACILITIES ENGINEERING", MIL-HDBK-1028/1 "AIRCRAFT MAINTENANCE FACILITIES", and future MIL-HDBK-1024/1 "AVIATION OPERATIONAL AND SUPPORT FACILITIES"

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