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ENGINEERING AND CONSTRUCTION BULLETIN

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Subject: Preferred Construction Techniques for SIPRNET Protective Distribution System for Command and Administrative Areas.

Applicability: Information

1. References:

- a. NSTISSI 7003, *Protective Distribution Systems (PDS)*, 13 December 1996 (U)
- b. USAISEC Secret Internet Protocol Router Network (SIPRNET) Technical Implementation Criteria
- c. UFGS Section 27 05 28, Protective Distribution System (PDS) for SIPRNET Communications Systems

2. Purpose: This ECB is to identify preferred construction techniques for SIPRNET Protective Distribution System (PDS) in command and administrative areas. Additionally, the preferred solution will provide an aesthetically appealing and expandable system. National security regulations prohibit painting, covering, or in any other way, hiding PDS conduit from full visual inspection. However, stating these prohibitions as minimum performance requirements in a design-build scenario will result in the following example of an unacceptable aesthetic configuration for command and administrative office environments.



3. Alternative physical configurations exist that will meet all technical and functional requirements with regard to security policy as well as being integrated in a more optimal aesthetic manner. Language is being added to the current model Request for Proposal (RFP) for the Battalion/Brigade Headquarters standard facility scope of work to accommodate these alternatives however, this wording is provided for use in the RFP for any non-standard facility projects with PDS requirements:

- a. "Secure Raceway shall be used to provide a more aesthetically pleasing PDS specifically designed for command and administrative office environments. The secure raceway PDS shall include an interlocking "clam-shell" design that enhances security and flexibility in that it can be securely closed and locked, and then re-opened for security inspections and network changes or enhancements. The secure raceway PDS shall also include an electrostatic powder coating from the manufacturer, which provides an aesthetically pleasing appearance."

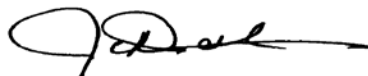
Two different systems are provided below for consideration:

- 1) <http://www.holocomnetworks.com>
- 2) <http://www.legrand.us/Wiremold.aspx?NewLookRedir=yes>



- b. A second option is Alarmed Carrier PDS, which can be concealed above ceilings and under raised floors. Currently, Alarmed Carrier PDS cannot be purchased with MILCON construction funding. Therefore, the project delivery team must reach an agreement with the user in advance to purchase with mission funding. The following stipulation also apply for Alarmed Carrier PDS:

- 1) Alarmed PDS carrier must be supportable by the installation NEC/DOIM.
 - 2) Access is still required to the alarmed carrier for inspection in the event of an alarm. An update to the Technical Guide for the Integration of SIPRNET will expand on alarmed carrier PDS implementation.
 - 3) Hardened PDS carrier requirements are reduced, but not eliminated, with an alarmed carrier. Each design must still be reviewed by the USA-CTTA.
- c. Either PDS system must be designed and installed in strict compliance of the references listed above. The designer must understand that final acceptance is subject to the approval of the Certified Technical Tempest Authority and the Designated Approving Authority.
4. Any SIPRNET design inquiries and questions on the USAISEC Secret Internet Protocol Router Network (SIPRNET) Technical Implementation Criteria to USAISEC-FDED at: DetrickISECSTIC@conus.army.mil
 5. This ECB applies to all MSCs, Centers, Districts and Subordinate offices working Military Construction Programs.
 6. HQUSACE POC for this action is Mr. Scott C. Wick, CECW-CE-D, 202-761-7500, Scott.C.Wick@usace.army.mil



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