PROTECTED DISTRIBUTION SYSTEM CHECKLIST

ALL PURPOSE CHECKLIST		PAGE 01 of 03 PAGES		
Protected Distribution System (PDS) Installation Checklist (extracted from CNSSI No. 7003 and NISPOM)		OPR: NAO	DATE:	
No.	**ITEM TO BE INSPECTED**	**YES**	**NO**	**N/A**
1.	Coordination with the Program Manager and FSO for planning purposes.			
2.	Proposed/Existing PDS Installation Plan is submitted to DSS for review by assigned ISSP.			
3.	PDS Installation Plan is returned for corrections or approved to proceed **prior to** contract award and material purchase.			
4.	PDS terminal network equipment installed in a DSS Closed Area?			
5.	PDS lines **NOT** concealed from view (for inspections and continued surveillance) and installed with at least a one inch standoff from all walls, ceiling, and floors?			
6.	I have a: ☐ Category 2 PDS/Hardened, Buried, Suspended, Alarmed, or Continuously Viewed Carrier (proceed to item 7) ☐ Category 1 PDS/Simplified Carrier (proceed to item 8)			
7.	**CATEGORY 2 PDS**			
	a. **Hardened Carrier:**			
	(1). Data cables installed in a carrier.			
	(2). Carrier constructed of ferrous, electrical metallic tubing (EMT), ferrous conduit or pipe, or ferrous rigid sheet steel ducting. Flexible conduit and armored cables must not be used as a hardened carrier. All elbows, couplings, nipples and connectors are of the same material.			
	(3). All connections must be permanently sealed around all surfaces with a contrasting colored material (e.g., welded, epoxy, fusion, etc). Holocom® is **NOT** exempt from this requirement.			
	(4). The carrier must be installed to provide an unobstructed view during visual inspections and must provide at least 2.5 centimeters (1 inch) of clearance from walls, floors, ceilings, ducts, cables, other conduits, or any material that may obstruct visual inspections. If a wall, floor, or ceiling surface is at least 10 centimeters (4 inches) of reinforced concrete or equivalent, the carrier may be flush-mounted to the surface instead of leaving a 2.5-centimeter gap. PDS shall be mark at least every 3 meters or inspection ports through voids.			
	(5). Termination/junction box cover is sealed around the mating surfaces after installation or			
	(6). Termination/junction box cover must not have removable externally mounted hinge pins and must be secured with a hasp and S&G 8077 combination padlock.			
	(7). Termination/junction boxes gage with pre-punched knockouts will not be used. Drain holes, if present, will be closed and sealed with a contrasting colored epoxy. Inspection port must be greater than the carrier by 10 centimeters (4 inches). If void is more than 15 centimeters (6 inches) thick, the inspection port must be the size of the carrier plus 20 centimeters (8 inches)			
	b. **Buried Carrier:**			

	(1). Buried a minimum of 1 meter below the surface and on property owned or leased by the U.S. government/contractor controlling the PDS.			
	(2). Manholes - secured with a GSA approved changeable combination padlock. If GSA locks cannot be used, a standard locking manhole cover and approved micro-switch alarms should be used.			
	(3) The data cables must be installed in a carrier. The carrier must be constructed of conduit consisting of EMT, ridged pipe, PVC or similar types of plastic electrical conduit. All connections must be permanently sealed completely around all mating surfaces (e.g. welding, epoxy, fusion, or PVC glue).			
	(4) If the buried carrier is installed in a medium threat location, then the carrier must be buried a minimum of 1 meter below the surface and be encased within the center of mass approximately 20 centimeters (8 inches) of concrete. A concrete and steel container is sufficient size (to preclude surreptitious penetration in a period less than two hours as confirmed by laboratory test) may be used in lieu of the 20 centimeters (8 inches) of concrete			
	(5) The buried carrier should enter a building through the building's concrete slab or basement wall. All portions of the PDS above the 1 meter depth and not within a CAA (e.g. a PDS rising to a pull box on the side of a building) must meet the requirements of a Category 2 hardened carrier.			
	(6) Manholes or any other access (e.g. hand hole) to the buried PDS must be secured with a PDS lock or an alarm. The PDS lock must be visible for daily inspection. If a PDS lock cannot be used to the physical construction of the manhole, then a standard locking manhole cover and micro-switch alarm should be used."			

No.	ITEM TO BE INSPECTED	YES	NO	N/A
	c. **Suspended systems between buildings:**			
	(1). Elevated a minimum of 5 meters.			
	(2). Only used if property traversed is owned or leased by the U.S. Government or U.S. contractor having control of the PDS.			
	(3). Installed to provide unimpeded inspection and clear of any obstruction or device which encroaches upon the system to facilitate tampering.			
	(4). Area containing the suspended carrier shall be illuminated.			
	d. **Alarmed Carrier:**			
	(1). Protected by an alarm system approved by DSS.			
	(2). A standard operating procedure (SOP) approved by DSS should be implemented to:			
	(a). Verify performance at the interval specified in the CNSSI 7003 PDS Inspection Schedule.			
	(b). Ensure response by security personnel within 15 minutes of discovery in the area of possible penetration.			
	(c). Determine the cause of alarms through PDS inspection.			
	(d). Define actions taken regarding the termination of transmission.			
	(e). Initiate investigations of intrusion attempts, etc.			
	e. **Continuously Viewed Carrier:**			
	(1). Under continuous observation: 24 hours a day, 7 days a week (including when non-operational)			
	(2). Circuits may be grouped together, but separated to ensure open field of view.			
	(3). Standing orders should include:			
	(a). Requirements to investigate any attempt to disturb the PDS.			
	(b). Investigation of an attempted penetration by security personnel within 15 minutes of discovery.			

No.	ITEM TO BE INSPECTED	YES	NO	N/A
8.	**CATEGORY 1 PDS**			
	a. Reduced level of physical security protection and uses a simple carrier system (SCS):			
	(1). Data cables are installed in a carrier			
	(2). Data cables must be installed in a simplified carrier. The carrier must be constructed of metal or polyvinyl chloride (PVC) pipe of at least a schedule-40 grade, or armored cable. If armored cable is used, the armor jacket for the cable must be constructed of a flexible metallic material, such as copper, aluminum or steel. If the armored cable is not constructed of a solid, continuous material (i.e., the armor uses interlocking spiral segments), then the metallic material must have an overall, continuous plastic sheath.			
	(3). All connections and access points must be secured and controlled by personnel cleared to the highest level of data handled by the PDS			
	(4). Inspected IAW CNSSI 7003 PDS Inspection Schedule.			
9.	**CIRCUIT SEPARATION**			
	a. **General**			
	(1). Ensure PDS is not accessed by those without appropriate clearance.			
	(2). Inhibits inappropriate circuit cross connection.			
	b. **Access Points**			
	(1). Access to all points with breakouts should be restricted to personnel cleared at the highest level of the breakout unless escorted by cleared personnel.			
	c. **Termination Boxes –** Located within a Closed Area at the highest level of data being interfaced by the box.			
	d. **Additional Requirements** – the Government customer may levy additional RED/BLACK separation and/or TEMPEST requirements as needed.			
10.	**DOCUMENTATION FOR PDS APPROVAL**			
	a. PDS Installation Plan.			
	b. Facility Map indicating the location of the PDS in association to the facility boundaries.			
	c. Building Map indicating the extent of PDS boundary within specific buildings.			
	d. Redline Drawings indicating the location identity of all termination/junction boxes and a redline indicating the installed conduit/pipe/raceway. (Any lockboxes have been marked with the matching identification of its padlock and keys. Drawings should show locations where the joint is less than a typical segment (ex. 10 ft)			
	e. Procedures are in place for visual/technical inspections and testing of Alarmed Carrier (if installed)			