

Target Interface / Construction Compliance Inspection Checklist

Date:		YES	NO	NOTES
Location:				
Shoothouse				
Common Items				
A: Targets				
1	Quantities meet DD1391, applicable TC 25-8, and CEHNC Design Guide 1110-1-23 (Standard is 14 single UTOs and 4 Double UTOs)			
B: Roads: Service, Lanes				
1	Adequate access is provided to the Shoothouse and AAR			
D: Testing Results provided to the local government construction representative				
1	Data cabling tests including fiber optic and/or copper network (ie. Cat5e)			
2	Grounding tests results. Control building (ie. AAR) has 25 Ohms or less earth resistance			
E: Drawings				
1	Contract drawings are available on-site			
2	"As-builts" will be made available to government representative after completed construction			

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Shoothouse			
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A: Miscellaneous			
1			Lightning protection is provided. Verify UL listing will be obtained per contract (UL Listing not required per this checklist).
2			All conduits from the DE and the panelboard shall be routed under or on the side of the catwalk.
3			All empty conduits have pull wire.
4			Lighting in Shoothouse area does not hinder camera visibility. Mount to truss. (Bottom of lights approximately 19'-6" AFF)
5			Maintenance receptacles are GFCI and installed in adequate locations in Shoothouse.
6			Any bullet protection is installed properly.
B: Target Outlets			
1			Target Outlets (data and power) boxes and conduit are provided under or on the side of the catwalk and are at a minimum 7' AFF.
2			Target Outlets (data and power) have a permanent label on the exterior of the enclosure that agrees with labels in DE.
3			Target Power Outlets are a NEMA L14-20R receptacle each with wet location cover.
4			Target Data Outlets are Amphenol RJ Field outlets installed in "code A" configuration. (Amphenol outlets are Government furnished, contractor installed)
5			The data cable to the target data outlets shall be Cat6 UTP type cable.
C: Camera Outlets			
1			Camera Outlets (data and power) boxes and conduit are provided on the ceiling of Shoothouse and are located IAW CEHNC Design Guide 1110-1-23
2			Camera Outlets (data and power) have a permanent label on the exterior of the enclosure that agrees with labels in DE.
3			Camera Power Outlets are a NEMA L5-20R receptacle with wet location cover.
4			Camera Data Outlets are Amphenol RJ Field outlets installed in "code A" configuration. (Amphenol outlets are Government furnished, contractor installed)
5			The data cable to the camera data outlets shall be Cat6 UTP type cable.
D: Speaker Outlets			
1			Speaker Outlets (data and power) boxes and conduit are provided on the ceiling of Shoothouse and are located IAW CEHNC Design Guide 1110-1-23
2			Speaker Outlets (data and power) have a permanent label on the exterior of the enclosure that agrees with labels in DE.
3			Speaker Power Outlets are a NEMA L5-20R receptacle with wet location cover.
4			Speaker Data Outlets are Amphenol RJ Field outlets installed in "code A" configuration. (Amphenol outlets are Government furnished, contractor installed)
5			The data cable to the speaker data outlets shall be Cat6 UTP type cable.

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E: Communications Room			
1			Comm room doors are lockable.
2			Comm room roof is sealed against water penetration.
3			Comm room is sealed as much as possible to help prevent dust from entering.
4			All comm. room conduit and wireway penetrations through walls are sealed for rodent protection.
5			Adequate lighting is provided in comm room.
6			Climate control provided for OPA electronics as defined by contract drawings. (Standard is a thermostatically controlled exhaust fan)
7			A lighting contactor is provided in the electrical room and installed properly.
8			One, GFCI, 120-VAC, 20-amp duplex receptacle is provided in comm. room for maintenance purposes.
F: Power Panel			
1			Power panel is installed properly and has TVSS.
2			Panelboard has panel schedule provided and completed
3			SPD is provided in main service panelboard
4			A minimum 4 single-pole 120V 20A circuit breakers are provided in the power panel for OPA provided and installed cameras.
5			A 2-pole 120/240V 20A circuit breaker is provided for every 4 target power outlets. (6 per standard shoothouse)
G: Data Enclosure (DE)			
1			DE installed in comm room IAW CEHNC 1110-1-23. (3'X4'x10")
2			DE is provided with a dedicated 120-VAC, 20-amp duplex receptacle. (Non GFCI)
3			A minimum #6 AWG ground cable bonds the DE and the service equipment ground.
4			Optical fiber cables meet CEHNC 1110-1-23 specifications. Minimum 12 strands single mode.
5			Fiber cabling has no visible microbending, pinching, or other marking to indicate fiber failure.
6			Each optical fiber cable armor jacket is bonded to ground.
7			SC type connectors installed on all fiber cables.
8			Buffer tube fan-out kits installed and furcation units anchored in DE's connector housing.
9			SC connector panels in the DE are individually and permanently labeled showing cable destinations.
10			DE cables are permanently tagged adjacent to conduit penetrations showing cable destinations.
11			Optical fiber cables are free of splices between termination points.
12			Innerduct installed where optical fiber cable enters the building in rigid conduit.
13			DE vertical and horizontal cable management is clean, neat, and orderly.
14			The fiber optic patch panel and the power receptacle are installed in the lower corners and all cables inside the DE are routed around the outer edges of the DE to allow for the maximum amount of space of installation of equipment by others.

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Location:			
Shoothouse			
After Action Review (AAR)			
A: Miscellaneous			
1			Adequate space is available for target installer work stations.
2			Minimum of 12 strands of single mode fiber optic cable is installed between the DTR in the AAR and the DE in the Shoothouse.
3			Lightning protection is provided (UL label is provided?)
4			SPD is provided in main service panelboard
5			All empty conduits shall have a pull string
6			Exterior lighting is provided on separate switching located near points of egress
7			Exterior or interior white and red lights have separate switching.
8			Emergency lighting and exits signs are provided IAW codes.
9			Red lighting is provided near white fixtures in observation rooms, control rooms, and on exterior walls.
B: Development Room, Theatre, and Control Room			
1			No counters are provided in development area(s).
2			Receptacles for work stations are fed on dedicated 20-amp circuits. There should be one duplex receptacle per workstation.
3			All metal conduits and cable trays shall be bonded together and grounded.
4			A 20A duplex receptacle is provided near each overhead projector location in the theater area(s).
5			A continuous 12" minimum ladder type wireway extends from DTRs to the control room.
6			A 1" conduit is provided from a junction box at each overhead projector location in the theater area to the control rooms.
7			A 1" conduit is provided from a junction box 18" above finished floor near each projection screen in the theater area to the cable tray.
8			HVAC is provided in the development, theater, and control rooms.
9			One NEMA L5-30R receptacle is provided for each OPA provided rack.

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After Action Review (AAR)			
C: Patch Panel			
1			Fiber optic cable from DE in shoothouse electrical room is terminated in a wall mounted 12 port patch panel.
2			SC connector panels in the patch panel are individually and permanently labeled showing cable destinations.
3			Buffer tube fan-out kits installed and furcation units anchored in patch panel connector housing.
4			Optical fiber cables meet CEHNC 1110-1-23 specifications.
5			Minimum bend radius of optical cable has not been exceeded (10 times the diameter of the cable under no load conditions). There is also no micro bending of optical cable (pinched).
6			Optical fiber cables are free of splices between termination points.
7			Fiber optic cables are permanently tagged showing cable destinations.
8			Vertical and horizontal cable management is clean, neat, and orderly.
9			Each optical fiber cable armor jacket is bonded to ground.
10			A minimum of 1 meter of optical fiber cable left coiled above patch panel connector housings.
11			All data cables at every termination point are labeled with a permanent label.
12			A clear demarcation exists between DOIM cable and training cables.
13			Communication conduits are stubbed up underneath patch panel and grounded IAW CEHNC 1110-1-23.
14			Innerduct installed where optical fiber cable enters the building in rigid conduit.