

2.12.2.3 METALLIC TELECOMMUNICATIONS/DATA LINES

Whenever practical, metallic telecommunications/data lines should be eliminated from the facility. Metallic telecommunications/data lines provide a conductive path into the facility for lightning energy. Elimination of metallic telecommunications/data lines through the use of fiber optic cable (or other isolation device) provides isolation from lightning-induced ground potential rise (GPR) and lightning energy.

2.12.2.4 ISOLATION OF BUILDING AND TOWER FROM ICE BRIDGE/CABLE BRIDGE

NOTE: Applies to tower and/or building-supported ice bridges and cable bridges.

In order to reduce the amount of lightning energy diverted toward the equipment building/shelter, and to provide seismic isolation between the building and tower, it is recommended that the cable bridge/ice bridge be secured to the tower using a non-conductive slip-joint type device. When a slip-joint type device is used, grounding of the cable bridge/ice bridge **shall** be completed as described in "Cable Bridge/Ice Bridge Grounding (Earthing)" on page 4-71.

2.12.2.5 USE OF AIR TERMINALS ON TOWERS

The use of air terminals (lightning rods) on a tower may be appropriate in some circumstances to protect antennas from a direct lightning strike. If the tower is over 45.7 m (150 ft.) tall, side-mounted antennas are vulnerable to direct lightning strikes. Side-mounted antennas installed at a height greater than 45.7 m (150 ft.) may be protected through the use of horizontal lightning rods. The horizontal lightning rods are attached to the tower, just above and below the antenna.

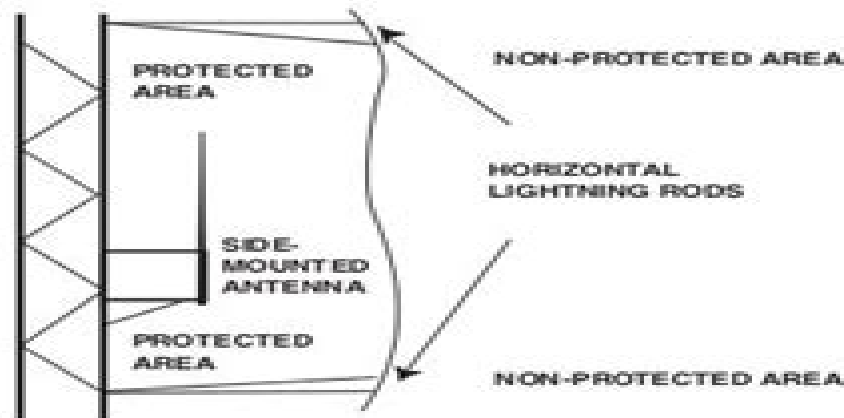


FIGURE 2-2 USING HORIZONTAL LIGHTNING RODS TO PROTECT SIDE-MOUNTED ANTENNA

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