

Kongres Container

Replace the lightning protection of the communication base station inverter



Overview

How should a lightning protection System (RBS) be formed?

The earthing network of an RBS should be formed by a ring loop surrounding the tower, equipment room and fence, at a minimum. The mean radius r_e of this ring loop should be not less than l_1 , as indicated in Figure 1 and this value depends on the lightning protection system (LPS) class and on the soil resistivity.

What is a lightning protection system (LPS)?

3.2.3 lightning protection system (LPS): Complete system used to reduce physical damage due to lightning flashes to a structure. NOTE - An LPS consists of both external and internal lightning protection system.

Is a telecommunication tower impacted by lightning?

If the antenna is installed on the top of telecommunication tower, e.g., antenna positions 1 of Figure 29, it is considered to be impacted by or exposed to direct lightning strikes. Refer to [IEC 62305-3] for detail information about the protection angles and volume protected by an air termination system.

How to protect the navigation light system in the equipment room?

Figure 12 shows protection of the navigation light system in the equipment room. If the NL has internal control circuits or it is based on LED technology, then an SPD is required on the top of the tower to protect the lamp. This SPD can be integrated into the lamp box.

How do you measure earthing resistance in a wireless base station?

In the earthing system for a single wireless base station, the earthing network, down-conductors and metal conductors make a test loop. By using a clamp meter, the earthing resistance of the entire loop can be measured, but not the earthing resistance of the earthing network.

How should a navigation light system be insulated?

Insulation measures must be taken between the fibre splice tray and other metallic parts inside the equipment room. The power and signal conductors and the control box that are connected to the navigation light (NL) system should be protected against lightning.

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