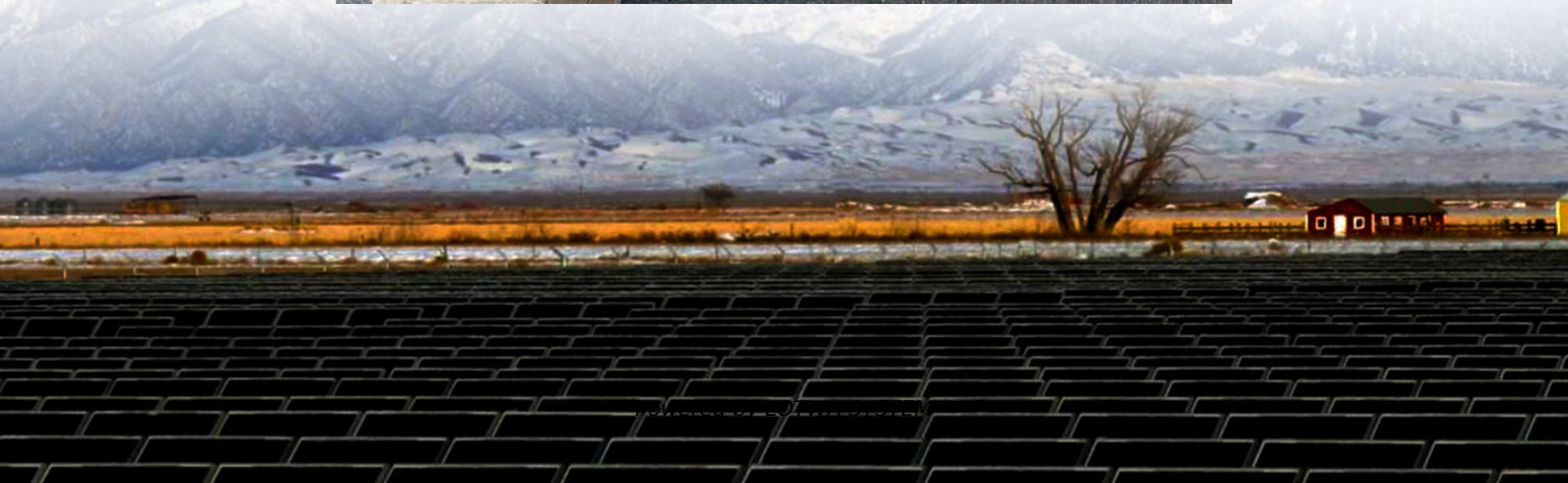


Funafoti Communication Green Base Station Lightning Protection





Overview

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.

Can a navigation light monitoring unit be installed in a PDB?

Refer to [IEC 61643-12] for the relevant information. If the NL is directly powered by PDB in the equipment room, an SPD should be integrated into the PDB. The bonding conductor of the PDB is recommended to be shorter than 1 m. The protection module of the navigation light monitoring unit can be installed in the NLCB or in the PDB.

Are rooftop antennas protected from lightning strikes?

If the antenna is installed on the rooftop, e.g., antenna positions 2 of Figure 29, depending on the relative height of building and the installation of the antenna system, it may be considered to be inherently protected from direct lightning strikes or be impacted by or exposed to direct lightning strikes.



Funafoti Communication Green Base Station Lightning Protection

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ITU-T Rec. K.112 (07/2019) Lightning protection, ...

Lightning protection, earthing and bonding: Practical procedures for radio base stations
Summary Recommendation ITU-T K.112 provides a set of practical procedures related to the lightning ...

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research on lightning protection and grounding safety ...

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