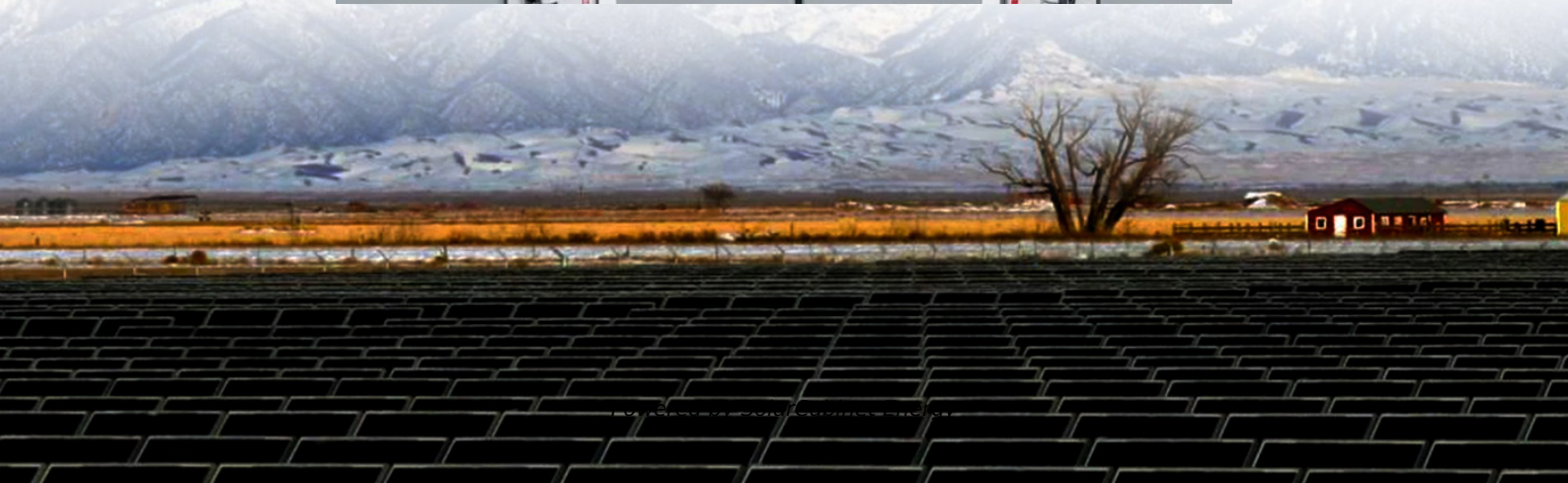


Communication green base station lightning protection work plan





Overview

How can engineers protect telecom facilities from lightning strikes?

According to Above Ground Level Magazine, engineers can help protect telecom facilities from the dangers associated with lightning strikes using a six point plan of protection. Continue reading below to learn more about these six steps of lightning protection for telecom facilities. 1. Capture the Lightning Strike.

How can LEC engineers protect telecom facilities from lightning damage?

Without a doubt, expenses from lightning damage can be substantial—especially for companies whose equipment is installed on tall structures. LEC engineers can help protect telecom facilities from the dangers associated with lightning strikes using a four point lightning protection design plan.

How do you protect a building from a lightning strike?

1. Capture the Lightning Strike Step one of the six point protection plan involves capturing the lightning strike via a rod or air terminal. Several different options exist depending on the structure size and height.

Are telecommunications facilities at risk of lightning strikes?

Telecommunications facilities are particularly at risk of direct lightning strikes—and the electrical surges that ensue—due to their tall stature and complex electrical makeup. However, there is a way for engineers to protect telecommunication facilities from the devastating and lasting effects of lightning damage.

Where can I find information about lightning protection?

For lightning protection best resources are Polyphasers book the ARRL Handbook along with the book “Grounding and Bonding for the Radio Amateur”. The ARRL Handbook contains good electrical safety information for



the amateur radio operator. Links on the next few pages to references and info. Links are also available at:.

Can lightning damage a telephone line?

Lightning can couple to telephone lines and RF feeders, leaving communication lines vulnerable to potential damage. With telephone and data lines, surges can occur from each line to ground or across the lines. Protection against these surges requires the use of appropriately designed surge protection devices.



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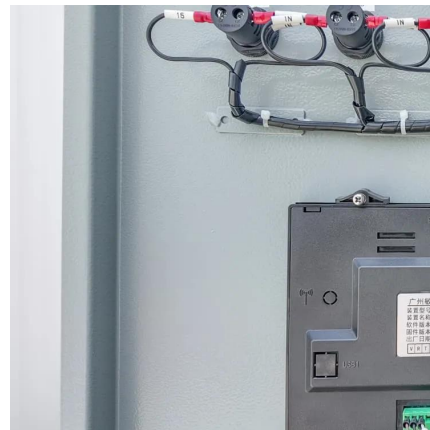


[Lightning protection principle and engineering design of wireless](#)

The mobile communication system includes wireless devices: a computer room, a station, an iron tower, an antenna feeder, etc., and the antenna feeder system is set up high, ...

[Basics of Lightning Protection for Communication Towers](#)

On the page at the link below there are a number of good papers on the importance of grounding and techniques along with resistance values. The next few slides are from the papers on their ...



[Lightning protection solution for telecom communication base stations](#)

The first level lightning arrester is used to discharge most of the lightning current, and subsequent lightning arresters further limit residual voltage to protect power equipment ...

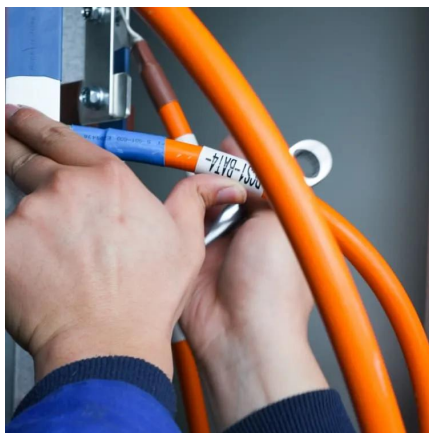


[On Lightning Protection and Grounding Work of Wireless Communication](#)

In the frequent thunderstorm season, lightning protection has become an important task of wireless communication stations. It is of great



significance to do a good job of system ...

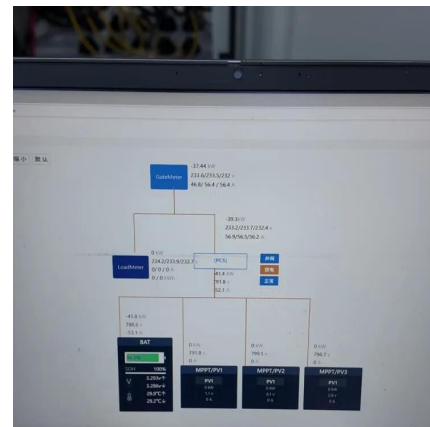


Communication Base Station (Independent Station) Lightning Protection

This solution simplifies the complex base station ground network engineering by using the equipment method, and completely isolates the impact between lightning protection grounding, ...

ITU-T Rec. K.120 (12/2016) Lightning protection and earthing...

The purpose of this Recommendation is to give guidance on the protection of miniature base stations against lightning surge, especially those which are in unexposed environments (to ...



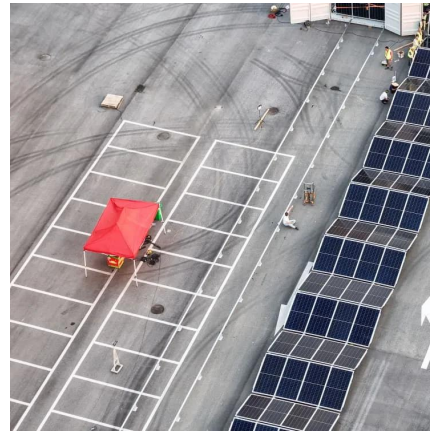
Lightning protection solution for telecom communication base ...

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Communication Base Station (Independent Station) Lightning ...

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The Six Point Plan to Achieving Telecom Facility Lightning Protection

According to Above Ground Level Magazine, engineers can help protect telecom facilities from the dangers associated with lightning strikes using a six point plan of protection.

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