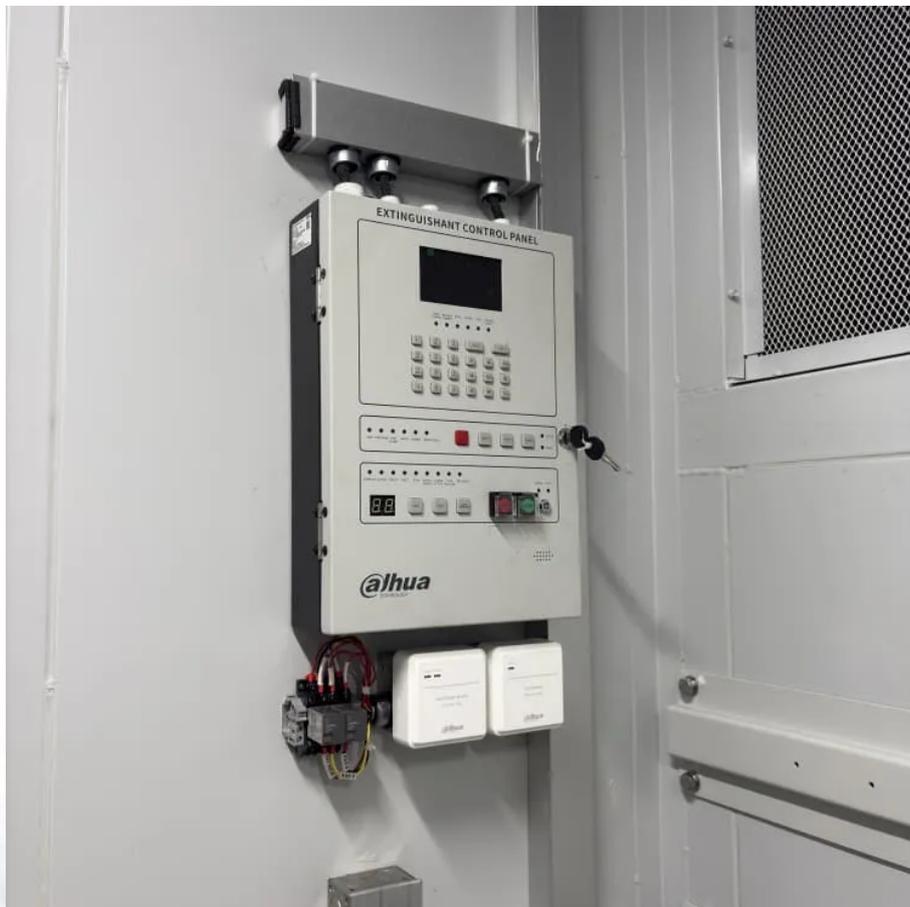


Safety protection of wind power equipment in solar container communication stations





Overview

What is a protection scheme in a wind electric plant?

Protection schemes within these types of equipment are designed by their manufacturers and are integral to the equipment. Wind Electric Plants are composed of many wind turbine generators (WTGs) which are connected to a collector substation through a collector system.

Do wind turbine generators and static VAR sources need to be protected?

Although the report addresses coordination with wind turbine generator protective devices and static VAR sources, protection of the wind turbine generators and static VAR sources themselves is not included. Large WEPPs are becoming more prevalent as generation sources on the power system.

How can a wind power plant assist the grid during contingencies?

It is important to consider applicable regulatory requirements, such as low-voltage ride through (LVRT), to enable the wind power plant to assist the grid during contingencies. Maintaining adequate power quality is another such consideration.

Can a tertiary winding be used to carry load?

If the tertiary winding is used to carry load, partial protection can be provided by a single overcurrent relay supplied by three CTs, one in each winding of the delta and connected in parallel to the relay. This connection provides only zero-sequence overload protection and does not protect for positive- and negative-sequence overload currents.



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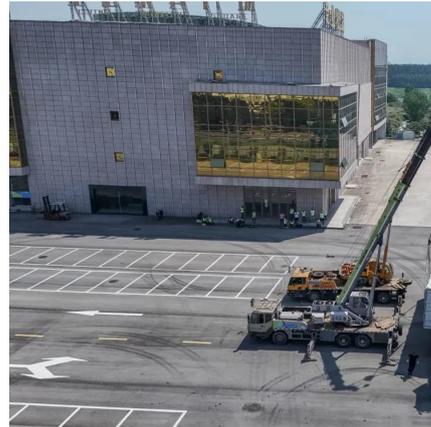


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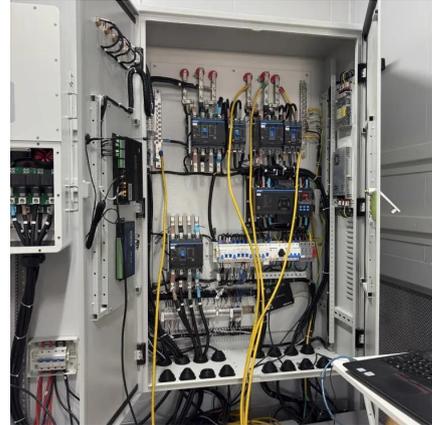
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