

Substations and generator sets



Overview

A substation is an installation that interconnects elements of an electric utility's system. These elements can include generators, transmission lines, distribution lines, and. A substation performs a major role in our power system. The functions of a substation may include one or more of the following: 1. To isolate a faulted element from the rest. There are many kinds of ac substations. They are classified into different types based on various criteria. Some of them are discussed below. 1. Generating station substation transform. An electrical substation contains many types of equipment. Substation generally comprises the following equipment: 1. Power Transformers. The neutral grounding resistor provides resistance grounding of the neutral transformers to limit ground fault current to a value that does not damage generating, distribution, or other associated equipment in the power system, yet allows sufficient flow of fault current.



Article Content

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Paralleling Generators To Utility Substations Caterpillar

Problem: Problems can occur when paralleling generator sets with utility substations.

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It describes the purpose, function, design characteristics and key properties. The substation equipment discussed in the chapter include: transformers, regulators, circuit breakers and ...

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Substations | part of Electric Power System Basics for the ...

This chapter discusses the major types of equipment found in most transmission and distribution substations. It describes the purpose, function, design characteristics and key properties. The ...

Substations

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Electrical substation

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Electrical Substation: Equipment, Types, Components

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The basic things about substations you MUST know in the ...

Mar 16, 2023 · Part 1 of this course series is concentrated on demonstrating how modern power systems are arranged to accomplish all these goals; what place electrical substations have in ...

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