

Inspection of complete sets of high-voltage switchgear equipment



Article Overview

High-voltage switchgear inspection involves systematic visual, mechanical, and electrical checks to ensure safety, reliability, and compliance with industry standards.

Overview of High-Voltage Switchgear

High-voltage (HV) switchgear is designed to control, protect, and isolate electrical circuits operating above 1 kV, ensuring safe operation and preventing equipment damage or personnel hazards . It includes components such as circuit breakers, disconnectors, fuses, busbars, and protection relays. Proper inspection is critical to maintain operational integrity, prevent failures, and comply with standards like AS 2067:2016, IEEE, IEC, and NETA .

Key Inspection Areas

A complete inspection of HV switchgear should cover the following areas: 1. Equipment Identification and Documentation

- Verify asset name, tag number, type, voltage rating, location, and last inspection date .
- Ensure all documentation, including maintenance logs and test reports, is up to date. 2. Visual and Mechanical Checks
- Inspect for discoloration, moisture, dust, or corrosion on insulators and enclosures .
- Check doors, interlocks, and racking mechanisms for proper alignment and smooth...

Article Content

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