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different bus arrangements used in substations stating the advantages and disadvantages of each. Also it provides information as related to each bus type and construction. Once the bus type is selected, this guide provides the calculation tools for each bus type.

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Security. Abstract: Security issues related to human intrusion upon electric power supply substations are identified and discussed. Various methods and techniques presently being used to mitigate human intrusions are also presented in this guide.

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Abstract:IEEE C37.123-1991 covers the technical requirements for the design, fabrication, testing, and installation of a gas-insulated substation (GIS). The guide looks at parameters to be supplied by the purchaser and technical requirements for the design, fabrication, testing, and installation to be furnished by the

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## **IEEE Guide to Specifications for Gas-Insulated Substation ...**

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**IEEE Std 605-2008,  
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**Project Details** This guide describes recommended practices for the physical security of electric power substations. It is designed to address a number of threats, including unauthorized access to substation facilities, theft of material, and vandalism.

**IEEE P1402 - IEEE  
Draft Guide for**

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## **Physical Security of**

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IEEE Guide for Safety in  
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Grounding Abstract:

This guide is primarily concerned with outdoor ac substations, either conventional or gas-insulated. These include distribution, transmission, and generating plant substations.

**80-2013 - IEEE Guide  
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80- 2013, IEEE POWER  
AND ENERGY SOCIETY,  
NEW YORK, NY.

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GUIDE FOR  
MEASURING EARTH  
RESISTIVITY, GROUND  
IMPEDANCE, AND  
EARTH SURFACE  
POTENTIALS OF A  
GROUNDING SYSTEM,  
IEEE STD 81-2012, IEEE  
POWER AND ENERGY  
SOCIETY, NEW YORK,  
NY.

**Substation  
Grounding Design  
Challenges And  
Lessons Learned**  
998-1996 - IEEE Guide  
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for Direct Lightning Stroke Shielding of Substations. Design information for the methods historically and typically applied by substation designers to minimize direct lightning strokes to equipment and buswork within substations is provided.

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Guide for Direct  
Lightning Stroke ...**

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IEEE Draft Guide for  
Direct Lightning Stroke  
Shielding of  
Substations IEEE  
P998/D14.1, October  
2012, 2012 Design This  
guide provides  
design information for  
the methods  
historically and  
typically applied by  
substation designers to  
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IEEE Guide for  
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Protection - Redline  
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provided to substation  
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determining the  
design, equipment, and  
practices deemed  
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## **979-2012 - IEEE Guide for Substation Fire Protection ...**

IEEE Guide for Electric  
Power Substation  
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Security This Guide  
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human intervention  
during the  
construction,  
operation, (except for  
natural disasters) and

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maintenance of electric power supply substations. It also documents methods and designs to mitigate intrusions.

## **Electric Power Supply Substations - IEEE Conferences ...**

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substation engineers. This standard for fire protection in a substation does provide specific guidance for the protection and physical isolation of transformers in the form of fire wall barriers.

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