

# **Classification of hazardous sources of power generation in base station energy management systems**





## Overview

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What are the hazardous energy control requirements for generation?

The hazardous energy control requirements for generation apply to all types (and forms) of hazardous energy and are different than the electrical energy control requirements for T&D lines and equipment.

What is a hazardous energy control program?

General Requirements Hazardous energy control programs help safeguard workers from the risks of hazardous energy associated with the servicing or maintenance work performed on machine and equipment systems, including those involving generation, transmission, and distribution systems.

What causes a process safety hazard in a power station?

Many power stations are being operated beyond their original design life increasing the risk of a process safety accident due to the following factors. No hazard analysis during the design phase or records not available to the operating team. Process safety information incomplete, missing or out-of-date.

How power generation process affect health and safety of people?

Power generation process lead to consider on the health and safety of people. In this paper show the details of hazard identification and its assessment and with controls parameter such as Hazard Control -controlling of hazards and associated risks with the hazard.

What standards are used in hazard management?

The main standard used is IEC 60079-10-1:2020 , which can be used for the classification of hazardous areas indoors and outdoors and establishing the extent of these hazardous areas. Published UK based guidance can be obtained from IP 15 and British Compressed Gas Association (BCGA) recommended Codes of Practice.



Who controls safety in the power generation sector?

Safety in the Power Generation sector was traditionally controlled by the Central Electricity Generating Board (CEGB). Fragmentation of the industry has occurred since privatisation, with existing power stations split between companies including; EON, RWE npower, Scottish Power, Scottish & Southern Energy and EDF Energy.



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