

287. FIRE RISK ASSESSMENT IN THERMAL POWER PLANT

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Thermal power is the largest source of electrical power in India, accounting for about 59% of total power generation. Fire accidents in thermal power plants not only result in the loss of life and property of the plant but also have a substantial impact on the interruption of power to the consumer and it results in blackout situation in many industries and domestic area. India being a developing country, the blackout situation in industries may result in economic crisis. From the past fire accident analysis, majority of fire accidents in thermal power plants have occurred in coal conveyor, transformer yard, boiler house, coal crusher house and switchyard. This paper aims at analysis of various fire situation and the existing control measures followed in the thermal power plant. Recommending advanced preventive control measures using Fire Risk Assessment (FRA) technique to prevent the fire accidents in thermal power plant to lead a safe operation of human and process.

Keywords: Fire prone areas, Control measures, Preventive measures.

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