

Steam turbine generator wind chamber fire protection

Does a water spray system protect a steam turbine?

A 1985 EPRI report indicates that fire damage outweighs the effects of applying water to a steam turbine from a properly designed suppression system. Preaction waterspray systems are best suited for turbine fire protection because of their high assurance against inadvertent discharge (see Power Engineering, April 1998).

Do steam turbines need a fire protection system?

Without a steam turbine fire protection system in place, typical damage may incur a large percentage of unit cost, even before calculating the damage to nearby auxiliary equipment. This increased awareness has led to more widespread acknowledgement of the need for additional fire protection systems for steam turbines.

Can a water mist fire protection system protect a steam turbine?

Water mist fire protection systems can potentially protect steam turbines from fire. Inadequate fire protection and a lack of proper emergency response protocols can worsen the severity of fires.

Why do steam turbines need a fire suppression system?

The intent is not to protect the bearings but to provide protection from an oil fire. A 1985 EPRI report indicates that fire damage outweighs the effects of applying water to a steam turbine from a properly designed suppression system.

Which fire suppression system is best for steam turbines?

Each manufacturer is aware of which system is best suited for each application. Although water mist is not the most frequently installed fire suppression system for steam turbines, it is becoming an increasingly attractive option within the industry.

How do I protect my steam turbine-generator?

The preferred protection for steam turbine-generators is automatic sprinklers under the entire turbine operating floor, including any mezzanines between the equipment floor and the turbine level, and under the condenser.

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