Composition of the exhaust system of the hydro-turbine generator

2) Booster turbine multiplied unit: The rated by the generator efficiency; multiplied by the boosterpower efficiency andgenerator by the generator shall be equal to the rated output of the turbine efficiency.

The two major components of the generator are the rotor and the stator. The rotor is the rotating assembly to which the mechanical torque of the turbine shaft is applied. By magnetizing or "exciting" ...

Standard brushless excitation system provides high reliability and reduces maintenance and installation costs. The exciter is ventilated from the main generator and eliminates the need for separate ...

In combined cycle plants, exhaust heat produces steam for a bottoming turbine electric generator, thereby raising net efficiency and improving carbon intensity per megawatt-hour.

This chapter focuses on the design and construction of the generator and its major individual components. It goes into enough detail on how the components are designed and ...

Generator exhaust systems for years have been fabricated from sections of schedule 40 carbon steel pipe that are field welded, then insulated to reduce surface temperatures.

The document provides details on power house layout and construction, specifications for hydro generators including classifications, design considerations, and calculations for determining ...

A hydroelectric power plant is a non-convention power plant and widely used to generate electricity from a renewable source of energy. To achieve kinetic energy from water, the reservoir or dam is ...

Large turbines may comprise more nozzles, to allow jets impinging at different locations of the wheel. As the load on the turbine changes, the speed of the turbine varies accordingly, which changes the ...

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