

Fix the power station generator foundation





Overview

How do I choose a foundation for a generator set?

Foundations supporting generator sets must meet flotation, alignment and vibration parameters for successful operation. Specifications that consider the following criteria will help assure trouble-free installation and operation. Foundations must be able to withstand the installation's weight and prevent deflection.

How a steam turbine generator foundation is analyzed for static and dynamic condition?

The steam turbine generator foundation has been effectively analyzed for static and dynamic condition utilizing SAP2000 software. The natural frequency of the foundation is much lower than the working frequencies of turbo-generator machine and amplitudes are within the limits as specified by the manufacturer.

How do you design a turbine-generator foundation?

The design of turbine-generator foundations requires advanced technical expertise in structural engineering and soil dynamics, as well as close collaboration with manufacturers, mechanical and electrical engineers, and plant designers.

What is the ratio of a turbine-generator foundation to a machine?

The ratio of the weight of turbine-generator foundation (excluding the base mat) to the weight of machine shall be minimum 2.44. The weight of the base mat should be atleast equal to the weight of the operating deck plus the turbine generator. VI. VII. STG Foundation is modelled in SAP2000 for static analysis purpose.



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Designing a turbine generator foundation requires not only advanced technical expertise in structural and soil dynamics, but also close collaboration with machine manufacturers and ...

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A solid generator foundation is necessary for the efficient operation of a hydroelectric generator. A generator at a Southern dam had been out of service for 10 to 15 years and needed ...

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Considerations for generator set foundations
Foundations supporting generator sets must meet flotation, alignment and vibration parameters for successful operation. ...

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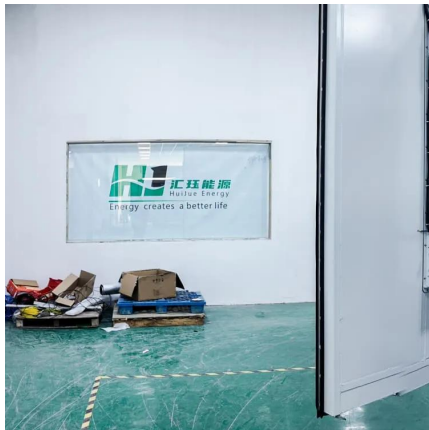
Strengthening and Prevention of Crack Propagation in a Power Station

The Tenom Pangi Hydro Power Station was officially opened on April 11, 1985. It consists of three "Francis Turbines" units, each capable of



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Barking Power Station generator core failure and repair process Introduction Barking Power Station is a 1000 MW combined cycle generating plant consisting of two separate ...

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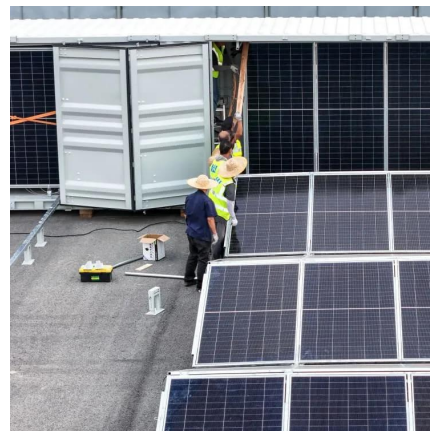
Turbine generator is the heart of the whole power plant, and steam turbine foundation is one of the most important parts in power plant civil engineering. The steam turbine foundation is ...

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