

Steam turbine generator stator air guide plate

What parts can STS provide for my turbine-driven generator?

STS, Inc. can provide everything from small fasteners to insulated components and larger maintenance parts for the following turbine-driven generators: No part is too small! If you need a part, contact us. We have solutions! Click below to see all the parts that STS, Inc. can supply for your steam turbines.

What is a steam turbine generator arrangement?

The overall steam turbine generator arrangement of a power plant is designated as tandem-compound or cross-compound on the basis of the shaft orientation. These two arrangements are shown in Fig. 8-8. The tandem-compound unit has all turbines and the generator in-line, connected to the same shaft.

How does a steam turbine generator support a large unit?

The steam turbine generator support foundation of large units is called a pedestal. Larger units have low-pressure turbines that exhaust downward and have numerous steam lines connected to the turbines. This requires the installation of the steam turbine generator on an elevated pedestal.

How to install a steam turbine generator?

This requires the installation of the steam turbine generator on an elevated pedestal. The condenser can be located under the low-pressure turbine and access is provided to the underside of the turbines for steam lines. Two types of turbine pedestals are used: heavy reinforced concrete and steel.

Can a gas turbine uprate a steam turbine?

It has been common to support a gas turbine or steam turbine uprate by taking advantage of the existing generator margin (i.e., just operate the generator at a higher power factor than originally designed). An example of this would be to operate at 0.95 lag rather than the original 0.9 lag, while recognizing a reduction in MVAR capability.

What is a steam turbine generator?

The steam turbine generator is the primary power conversion component of the power plant. The function of the steam turbine generator is to convert the thermal energy of the steam from the steam generator to electrical energy.

Generator Stator Bars 3002021507 Field Guide: Generator Electrical Testing 3002016240 Generator Stator Endwinding Bump Test Guide 3002014692 Theoretical Limits of Generator ...

Stator: The stator is the stationary part of the turbine that surrounds the rotor. It contains fixed blades that direct the flow of steam onto the rotor blades in an efficient manner. ...

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(A typical power plant steam turbine rotates at 1800-3600 rpm--about 100-200 times faster than the blades spin on a typical wind turbine, which needs to use a gearbox to ...

8.1 INTRODUCTION. The steam turbine generator is the primary power conversion component of the power plant. The function of the steam turbine generator is to convert the thermal energy ...

Streamlining International Logistics: A Comprehensive Guide for Industrial B2B. Vendor Management: Expediting and Monitoring Services in the Industrial Sector ... Ejectors - Steam ...

An often overlooked aspect of routine hydro turbine and bearing maintenance is inspection of the grout and sole plates that support umbrella-type vertical hydro-generator bearings. These ...

The Altamira II combined-cycle plant was notified in October 2014 of some findings in the generator-rotor end plates that had occurred at other Mexican plants with similar air-cooled ...

The steam leaving the chevron plate separators flows over two tube bundles where it is reheated in two stages. ... Automatic load runback initiated by generator stator water turbine runback ...

A 288 MVA, 21 kV steam turbine driven air-cooled generator with endwinding vibration data prior to and after a system event that led to the loosening of the support structure was trended on ...

Rotor (lower left) and stator (upper right) of an electric motor Stator of a 3-phase AC-motor Stator of a brushless DC motor from computer cooler fan.. The stator is the stationary part of a rotary ...

GE's cost-effective steam turbine generator parts are engineered to current OEM standards, and can help you shorten maintenance outages. ... Air quality control systems Featured content. ...

These plates are supported in a casing so that they may be positioned against the rotating faces of the collars. ... TSI refers to instrumentation systems that specifically perform measurements of critical control parameters ...

The Altamira II combined-cycle plant was notified in October 2014 of some findings in the generator-rotor end plates that had occurred at other Mexican plants with similar air-cooled generators. Two months later, inspections at ...

Toshiba's TX-8 series steam turbines are the highest capacity offering from our steam turbine product line-up, providing output of more than 1,100 MW. The TX-8 is a tandem compound, ...

LP steam turbines, especially in the last stages, has often made it difficult in the past to introduce new design features, mainly because the available design tools have been unable to predict ...

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capacity generator. Air-cooled turbine generator structure and parameters Taking a 2-pole 150 MW air-cooled turbo-generator as the research object, the surface heat transfer coefficient ...

Small Steam Turbines for Generating Electricity. Small steam turbines are commonly used for generating electricity in various applications, ranging from residential and ...

mode shapes of a turbine generator train. This information is also very useful for defining modifications designed to tune a specific natural torsional frequency. Excitation of torsional ...

Streamlining International Logistics: A Comprehensive Guide for Industrial B2B. Vendor Management: Expediting and Monitoring Services in the Industrial Sector ... Ejectors - Steam Jet Air Ejectors (SJAE) Ejectors - Three Stage. Ejectors - ...

(A typical power plant steam turbine rotates at 1800-3600 rpm--about 100-200 times faster than the blades spin on a typical wind turbine, which needs to use a gearbox to drive a generator quickly enough to make ...

With the capacities of large-scale turbine generators increase, higher electrical and thermal loads may cause higher risk of thermal faults. Especially, for those air cooling ...

draw air into the turbine. The condenser which provides the exhaust vacuum would have its performance significantly degraded by mixing air with the steam. The seals therefore prevent ...

I.B. 1840-1 TURBINE GENERATORS LIST OF ILLUSTRATIONS Figure Page 1 Cutaway View of Generator.8 2 Stator Coil Insulation.9 3 Temperature Detector Arrangement.9 4 Stator ...

STS, Inc. can provide everything from small fasteners to insulated components and larger maintenance parts for the following turbine-driven generators: · 2 and 4 Pole · Air Cooled · ...

The power output rating of a turbine generator is affected directly by efficient cooling, especially near the stator end-windings. However, modeling the coolant flow through ...

This paper covers various types of generator fields, including both conventionally-cooled (indirect copper cooling) windings and direct-cooled copper windings as well as those with spindle and ...

Steam turbine generators come in many shapes and sizes, but all follow the same fundamental law's of physics to generate electricity. To learn more about how a simple turbine generator ...

And this turbine runs a bit like a windmill, but instead of wind, it uses hot, high-pressure gas. 2. Components of a Gas Turbine. A gas turbine, in its simplest form, is composed of eight main ...

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