

Application of brush seals to steam turbine generators

-- Brush Seal



Description: -

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Theses (University of Northumbria at Newcastle) application of brush seals to steam turbine generators

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Brush Seal

The rotor was clearly locked up on a high spot; the sound of metal scraping the casing was heard as the rotor turned.

Brush Seals

The segments are moved to their outermost positions by springs, not shown, disposed between the flanges 30 and the locating flanges 32 and inwardly by steam pressure. Further inspection determined the caulking wire was backing out of the retaining groove at five stages. All foreign material also was marked.

Brush Tip Seals

Thus, the increase in temperature resultant from rubs between the bristle tips and the rotor 12 which effectively increase vibrations of the turbomachinery are eliminated. The beneficial effects of eliminating vibration caused by heating effects of brush seals in contact with the rotor substantially outweigh any diminution of sealing resulting from the clearance between the brush seal bristle tips and the rotor. By eliminating any rubbing contact between the bristle tips and the rotor during the entire range of operation of the turbomachinery, friction-generated heat is avoided and the vibrations of the turbomachinery resultant from otherwise continued increased heat generated by the frictional contact are eliminated.

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Help was needed to diagnose turning gear and unit-turning issues.

Steam Turbines

A borescope inspection provides images of J-seal liberation inside the turbine.

Steam Turbines

Providing easy installation of the seal and long-term maintainability.

Steam Turbines

Turbines that exceed one-million-kilowatt output require exceptionally large, highly alloyed steel blades at the end. Oil contamination and higher oil temperatures will degrade bearing performance and increase the potential for bearing failure.

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