

Two-stroke generator fan blade

Do generator rotor fan vanes & blower blades fail?

The potential failure of generator rotor fan vanes and blower blades has been identified as an area for detailed risk assessment in the electric power generation industry. Liberation of fan component has caused catastrophic damage to both the rotor and stator components on a number of units.

What is the failure analysis of a generator rotor fan blade?

The failure analysis of a generator rotor fan blade was investigated by mechanical analysis and metallurgical examination of fracture surface. Fracture took place at the airfoil root, surface examination showed that the blade had cracked by a high cycle fatigue mechanism. However, there was no evidence of material defect.

Do rotor fan blades fail?

In general rotor fan blades are designed to run for a long time and premature failure of these blades are unusual, therefore it is necessary to do an exact failure analysis. In this paper, a mechanical analysis was performed with the metallurgical examinations for competent analysis of blade failure.

Do generator rotor fans/blowers have high stress?

Generator rotor fans/blowers are subject to both high steady and fatigue stresses during operation. The fan/blower blade itself is highly stressed. The highest stresses in an axial blower are developed in the base of the blade or in the blade root attachment to the blower hub.

Are gas turbine fan blades broken?

Failure report for gas turbine fan blades, 1997]. Metallurgical and structural analyses on the failed blades have not shown any microstructure degradation. Studies on the ruptured surfaces using scanning electron microscope (SEM) have shown that fracture has been happened as a result of high cycle fatigue (hcf).

Why are generator rotor fans/blowers important?

Generator rotor fans/blowers are critical, highly-stressed components justifying design scrutiny, proper material selection, quality fabrication techniques, and judicious non-destructive examination. Generator rotor fans/blowers are subject to both high steady and fatigue stresses during operation. The fan/blower blade itself is highly stressed.

Generators come in different shapes and sizes. One variation based on the engine specification is the choice of a 2-stroke or 4-stroke engine. There are different pros and cons of each engine ...

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cooler, cools with water flow. The air after cooling, conducts to rotor from two sides and by the fans that are set up on the Retaining Ring, is blown in two sides of rotor. Fig. 1. Generator ...

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