

Generator fan blade ud block

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.

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.

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.

Why do generator fan wheels fail?

Similar to retaining rings, these surfaces are subject to larger interference fits which should periodically be inspected. The failure mechanisms most common to generator fan wheels include: low cycle fatigue, high cycle fatigue, brittle fracture, corrosion and erosion.

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My 38 (same as a 39 std.) has the generator mounted stock location with a fan on the front. Just clears the radiator. I raised the radiator 1/4" and cut 1/4" off of the fan diameter. I built spacers to raise my 48"s a couple ...

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At 16.7% with operation 3 of 4 fan on, radiator temperature output is 46% and heat disposed is 627.2 kW where this value is the same value as the current condition. Keywords Radiator Outlet ...

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