

Title: The generator blades were stepped on

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After several years in service, one of the fan blades liberated from the hub caused extensive generator damage. Figure 1 below shows the "as found" hub with the missing blades.

Steam turbine blades are critical components in power plants which convert the linear motion of high temperature and high pressure steam flowing down a pressure gradient into a rotary motion of the ...

Various tests were conducted due to the renovation of the generator and the turbine. Preliminary observations indicated that a reverse water hammer had broken the runner blade and head cover.

There are continuing reports of mechanical damage to steam turbine blades and turbine-generator shaft systems attributed to interactions between the turbine-generator and the electric network, in the USA ...

Failures of blades, discs, and rotors in both fossil and nuclear steam turbines represent a serious economic loss of availability and reliability for electric power generation suppliers and other energy ...

In the early 1970s, the industry experienced a number of unsolved low-pressure turbine blade failures. The most notable occurred at the Prairie Island Nuclear plant with repeated failures of the last few ...

short circuit between rotor and stator and consequently generator explosion and lots of financial loss. Cooling system equipments were supplied by GEC-ALSTHOM Belford under the following ...

These recommendations were made in recognition of the decision to operate in Fuel Cycle No. 5 with low pressure turbine seventh and eighth stage blades removed and pressure plates installed, and to ...

Visual examination indicated that the 37 L-0 blades had cracks in their airfoils initiating at the trailing edge, near the blade platform.

Our experts removed and replaced six rows of rotating blades along with machining the horizontal joints of



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both halves and certain bores of the inner cylinder to enable the unit to return to ...

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