Removing the fan blades of a gasoline generator

Do generator rotor fan vanes & blower blades fail?
The potential failureof 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.

How do I fix a broken blade fan?
The recommended permanent corrective action is to replace the single hold down bolt design with a two bolt design(see Figure 2). This requires replacing the blade fan boss,along with all of the blades. Bolt installation torque should be per manufacturer's recommendations.

What are the different types of generator cooling blowers/fans?
The two main categories of generator cooling blowers/fans are axial flow blowers and radial flow fans. There is generally one blower or fan installed at each end of the generator rotor,although there are also single-blower/fan designs.

How does a generator cooling system work?
An ethylene glycol based coolant is circulated through the cooling system components. Three common cooling system configurations are: Single Pump Single Loop (SPSL) - SPSL systems are common in smaller to mid-size generator applications. Operation for this system as follows: o Engine starts,direct drive pump is driven and fan clutch is rotating.

How should a generator rotor fan/blower be examined?
Generator rotor fans/blowers should be visually and non-destructivelyexamined on a periodic basis for evidence of cracking and pending failure. Standard non-destructive examination (NDE) techniques include dye penetrant (PT),eddy current (EC),magnetic particle (MT),and ultrasonic (UT) tests.

What happens if a fan/blower fails?
Fan/blower failures can result in expensive damages and extended outages. Fans and blowers are highly stressed components of a generator rotor. Fan/blower failures can be related to design/manufacturing issues,assembly and disassembly procedures,or lack of inspection.

Follow these steps to properly remove and replace your generator fan. Removal of the Old Generator Fan. Disconnect the generator: Before starting any work, ensure that the generator is completely shut off and ...

The rotor is connected to the fan blades, so its rotation creates the desired air flow. ... you will need to locate and access the electric fan motor. This usually involves removing the ...

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The maximum angle of fan blade can be set until 19°. 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 ...

Let"s talk about Draining the Gas Tank from your generator. It"s important to keep your generator safe and ready for the next use. Sometimes, you need to remove old gas. There are two main ways to do this: manual siphoning and using a ...

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The radiator cooling fan forces ambient air over the core to remove coolant heat and maintain heat within engine parameters. Radiators can also have extra capacity for charge air-to-air ...

In gas turbine power plants, a fan is used as a cooling system to dissipate generated heat in coils (copper conductors) and generator electric circuits at the end sides of ...

In some cases, fracture of blades causes short circuit between rotor and stator and consequently generator explosion and huge financial loss.Since fracture in cooling fan blades has been occurred ...

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Generator Cooling Systems. Each generator set manufacturer offers different options for design of the cooling system. The two most common styles of cooling systems are closed loop and open loop systems. Closed loop systems ...

If none of the above works, clamp the fan blade in a vice or get a 1/2 inch diameter pry bar and stick it in one of the blades to hold the fan blade and bust it loose. This method will probably destroy the fan blade. Works 99% ...

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