



Turbine Power Technologies, Inc.

IRAN - Inspect and Repair as Necessary for Turbine

- ☐ Study the logbook history of the turbine
- ☐ Dismantle the turbine completely
- ☐ Clean and inspect all turbine parts
- ☐ Check the hour-limited/cycle-limited replacement time for turbine parts
- ☐ Repair or replace compressor blades in the 1st and 2nd stages
- ☐ Repair or replace compressor turbine blades
- ☐ Replace compressor thrust bearing and compressor turbine bearing
- ☐ Assemble the turbine shaft completely and balance
- ☐ Repair the outer combustion chamber and the fuel manifold
- ☐ Repair diffuser wall guide veins and blades
- ☐ Repair the internal combustion chamber and apply a coating
- ☐ Repair the compressor turbine stator and apply a coating
- ☐ Replace the deflector plate, if needed
- ☐ Replace thermocouples, if needed
- ☐ Repair or replace power turbine blades
- ☐ Assemble the power turbine shaft and perform the necessary balancing
- ☐ Examine the front and rear gearboxes
- ☐ Examine the exhaust system

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- ☐ Clean all screen filters in an ultrasonic cleaner
- ☐ Dismantle and clean and inspect all turbine valves
- ☐ Reassemble the turbine completely
- ☐ Inspect all the turbine accessories and repair or replace, if needed
- ☐ Rebuild torch atomizers
- ☐ Replace the stator generator brushes and, if needed, replace the bearing
- ☐ Strip and apply new paint to gearboxes
- ☐ Test run turbine on test stand for approximately five hours with different power settings while adjusting FCU and prop governor
- ☐ Preserve the fuel system with preservative oil

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