

ES4014 Power turbine bearing upgrade

Improve power turbine rotor stability



Engineered solution purpose

This engineered solution has been introduced to improve rotor stability in order to reduce vibration levels as a result of increased load requirements of power turbine and gas generator upgrades.

Applicability

All RT62/RT56/RT48S power turbines

Technical description

The bearing configuration in RT62/RT56/RT48(S) power turbines are upgraded to the current build standard.

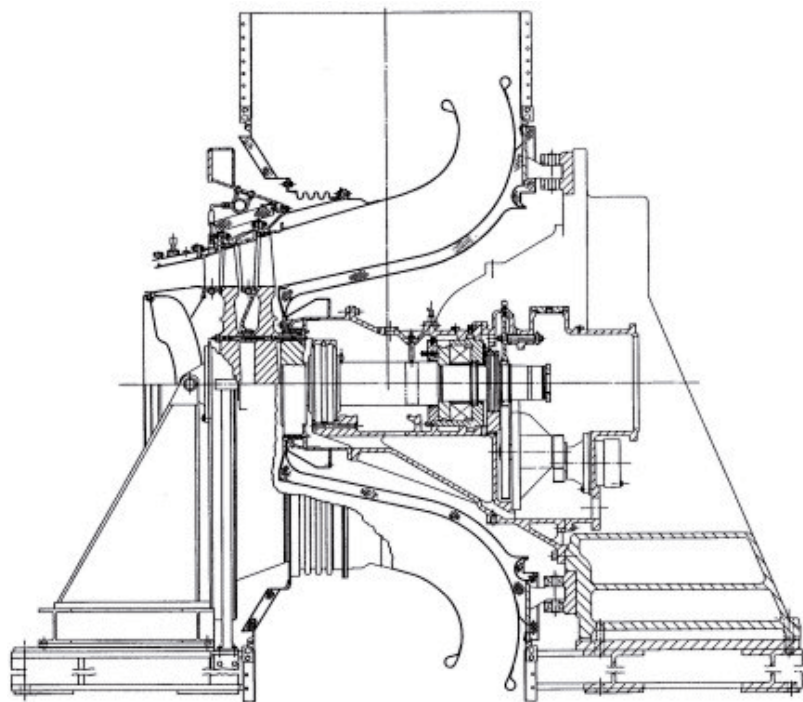
Benefits

This upgrade realises increased rotor stability and possible bearing pad temperature reduction.

Experience

The projects listed below are not an all-inclusive list, but are representative of projects where this upgrade has been applied:

Great Lakes Gas Transmission - 10+
 TCPL - 10+
 PG&E - 10+
 Brunei Shell Petroleum - 2



Scope of work

Replace old bearing configurations with the current design standard.

Bill of materials

Bearings (Journal and/or Thrust)

Undertaken

At site

Bundling opportunities

Power turbine upgrades
 [ES4001]
 [ES4005]

Gas generator upgrades
 [ES2001]
 [ES3001]

Package refurbishment [ES6001]

Power turbine overhaul