

ES4006 RT56 second stage vane and casing upgrade

Eliminate casing warp and vane creep by use of enhanced manufacturing processes and materials



Engineered solution purpose

This engineered solution eliminates operational concerns arising from vane creep and warping to the casing.

Applicability

All RT56 power turbines built prior to 1998 and driven by an RB211 gas generator.

Technical description

The second stage vanes and casing are replaced by components manufactured in advanced materials by superior machining processes. The second stage vane material is upgraded to N-155 whilst the casing material is now 718 Alloy.

Benefits

Along with reduced vane creep and casing warp, diaphragm rub is decreased resulting in increased life of the power turbine.

Experience

A partial list of customers who have chosen this engineered solution includes:

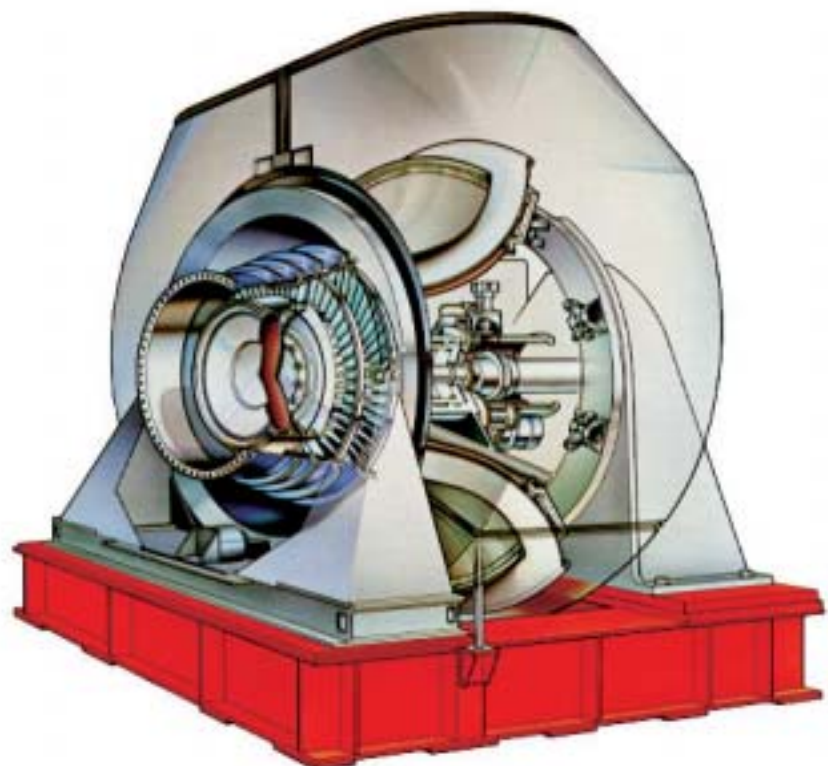
ONGC

TCPL

British Gas

BP

ExxonMobil



Scope of work

Replace second stage casing and vanes.

Bill of materials

Second stage casing

Second stage vanes

Fasteners

Undertaken

At site

Bundling opportunities

Power turbine overhaul

RT62/RT56 RB211-24G rating

upgrade
[ES4013]

RB211 early variant to 24G upgrade
[ES3002]