

CASE STUDY

FX-TURBO Evaluation & Redesign

Turboexpander-Gearbox-Generator



Application:

Geothermal Power Generation

Location:

California, USA

Challenge:

(8) Non-LAT turboexpander-gearbox-generator units were performing inconsistently, components were failing and the plant personnel were experiencing unreliable OEM service.

Specifications:

Process Gas: Isobutane

Inlet Temperature: 500 PSIA

Speed: 11,000 RPM

Power: Up to 5 MW

L.A. Turbine (LAT) is a recognized leader in aftermarket repair, redesign, maintenance and production of spare parts for all LAT & non-OEM turboexpander brands and configurations.



Our global FX-TURBO team provides diagnostic and emergency help 24/7/365 via our +1 855 FX-TURBO hotline (+1 855 398 8726) as well as on-site field service support.

LAT is also an OEM of turboexpanders for hydrocarbon processing, propane dehydrogenation, geothermal power generation and other industrial power recovery and refrigeration applications.

24/7/365
Support Services

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Case Study: Turboexpander-Gearbox-Generator

Challenge:

Eight (8) non-LAT turboexpander-gearbox-generator units were underperforming in their output levels and operationally, internal components were failing, and the end-user was experiencing unreliable aftermarket support and service from the OEM.

Solution:

Following LAT's on-site and shop evaluations, it was determined a redesign of the eight turboexpander-gearbox-generator machines was needed. The redesign included a change in the material selection and a modification to the fabrication and design of key components within the mechanical center section. LAT field service personnel also installed and recommissioned the repaired units.

Result:

Since the redesign, all units are functioning successfully.

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Rethinking Turboexpanders
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