

COMBUSTION TURBINE GENERATOR MAINTENANCE

TOTAL PETROCHEMICALS
PORT ARTHUR, TEXAS



DESCRIPTION:

Total Petrochemicals USA is a worldwide producer of polypropylene, polyethylene, styrene, polystyrene, base chemicals, and transportation fuels. Total operates a large integrated facility in the Port Arthur, Texas area utilizing a combustion turbine to produce power and waste heat for refinery use. NAES was contracted to perform work within the refinery cogeneration unit on the GE Frame 6B turbine generator in January 2008.

SERVICES PROVIDED:

- Hot gas path inspection of turbine
- Repair of 2nd and 3rd stage nozzles
- Generator major inspection including removal of field
- Removal and replacement of generator retaining rings
- High speed (3600 rpm) balance of generator rotor
- Complete rewind of generator stator
- Recondition generator collector rings

NAES also provided the technical direction and project management during the outage, including pre-outage planning, subcontractor management and scheduling.

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