

COMPREHENSIVE FIELD SERVICES & O&M FOR GE FRAME GAS TURBINES

Supporting Frame 5, 6B, 7E/EA, 9E, 7F, and 9F



FIELD SERVICES

On-Site Maintenance & Emergency Support

Major Inspection (MI): Complete turbine disassembly to inspect critical components including rotors, blades, vanes, diaphragms, bearings, and seals.

Hot Gas Path Inspection (HGP): Focuses on high-temperature combustion zones, covering 1st to 3rd stage buckets, nozzles, and transition pieces.

Combustion Inspection (CI): Inspection of liners, fuel nozzles, and crossfire tubes to ensure combustion health and reliability.

Alignment & Balancing: Laser alignment of turbine-generator shafts and dynamic rotor balancing to prevent vibration-related issues.

On-Site Machining & Repair: Field machining and repair of casings, flanges, blade tips, and surfaces restoring operational integrity without equipment removal.

Emergency Response: Rapid mobilization of technical crews for unplanned outages, turbine trips, and root cause investigations.



Major Inspection

Performed every **48,000 to 50,000** operating hours.



Hot Gas Path Inspection

Conducted every **24,000 to 32,000** hours.



Combustion Inspection (CI)

Performed every **8,000** hours.



LONG-TERM SERVICE AGREEMENTS (LTSA)

Multi-Year Support for Inspections, Parts, and Labor

Customized contracts that ensure consistent operational performance, minimize lifecycle costs, and maximize asset life. Includes:



Control Room Operations



On-Site EHS & Safety Protocols



Computerized Maintenance Management System - CMMS



Training & Knowledge Transfer



Spare Parts & Inventory Management



OPERATIONS & MAINTENANCE

24/7 Operations, Monitoring & Lifecycle Support



O&M Staffing

Deployment of skilled on-site operators and technicians to monitor and maintain systems around the clock.



Corrective Maintenance

Diagnosis and repair of failed or degraded components, including valves, actuators, sensors, and more.



Remote Monitoring

Digital 24/7 performance tracking with predictive fault detection and condition based alerts for smarter decision-making.



Preventive Maintenance

Proactive servicing of vital systems such as lubrication, filters, valves, and instrumentation to minimize downtime.





CONTROL SYSTEM SUPPORT

Upgrades, Tuning, and Fault Diagnosis



Mark V / VI / VIe

Upgrades, HMI modernization, and cybersecurity enhancements.



Tuning & Logic Optimization

DLN tuning, emissions performance tuning, load response.



Alarm & Trip Troubleshooting

Diagnosis of trip events and control faults.



OVERHAUL & COMPONENT REFURBISHMENT

Extending Life and Performance of Critical Components



Rotor

NDE testing, re-blading, balancing, and life extension evaluation.



Buckets & Nozzles

Tip grinding, weld repairs, recoating, and life tracking.



Transition Pieces

Inspected for cracking/warping; repaired or replaced during HGP.



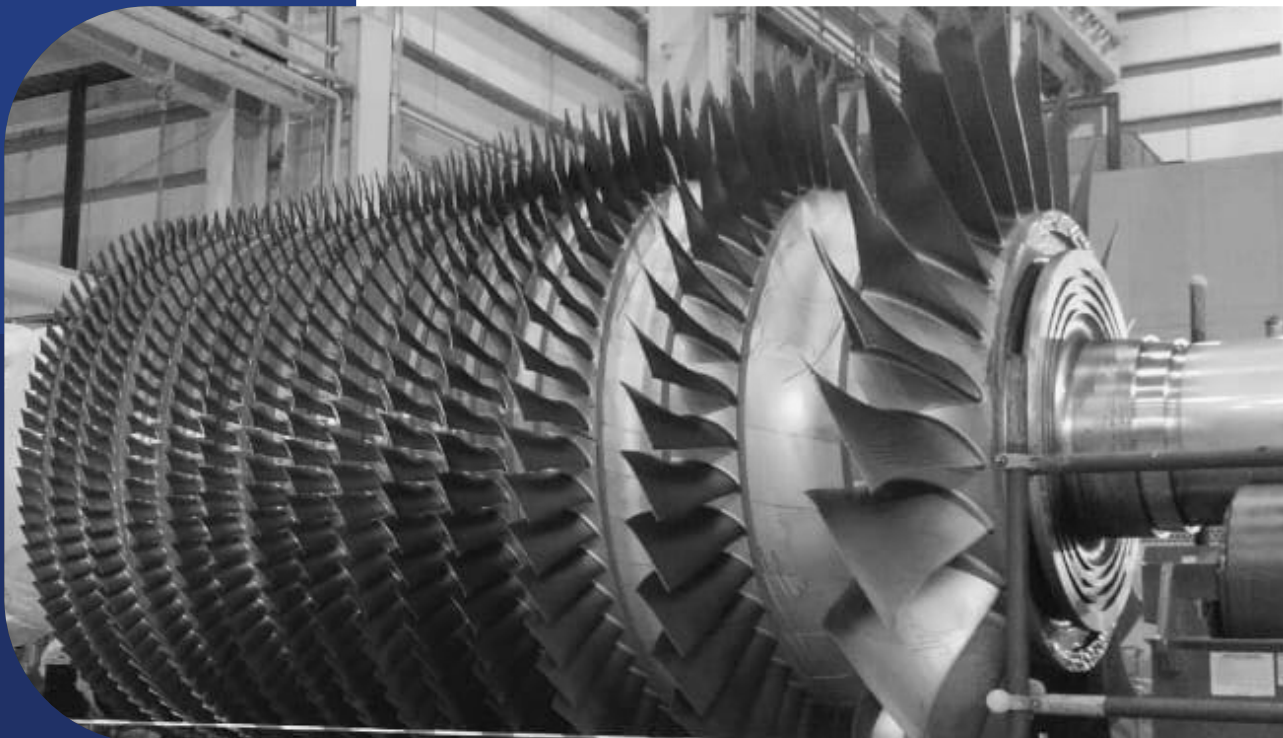
Combustion Liners

Recoated and repaired to maintain emissions performance.



Bearings & Seals

Replaced or refurbished based on inspection results.





DIGITAL & PERFORMANCE SOLUTIONS

Optimizing Performance, Efficiency, and Compliance



Performance Analytics

Monitoring of KPIs such as heat rate, output, and exhaust temperature.



DLN Tuning & Emissions Management

Ensures regulatory compliance and environmental performance.



Life Extension

Assessment of rotor and casing condition for extended service life.



SPARE PARTS & ASSET MANAGEMENT

Reliable Access to Parts and Lifecycle Tracking



OEM & Non-OEM Parts

Sourcing buckets, nozzles, bearings from OEM or qualified vendors.



Reverse Engineering

Replication of discontinued parts by third-party service providers.



Parts Tracking

Serial number-based tracking of component life and usage cycles.



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