



# 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.

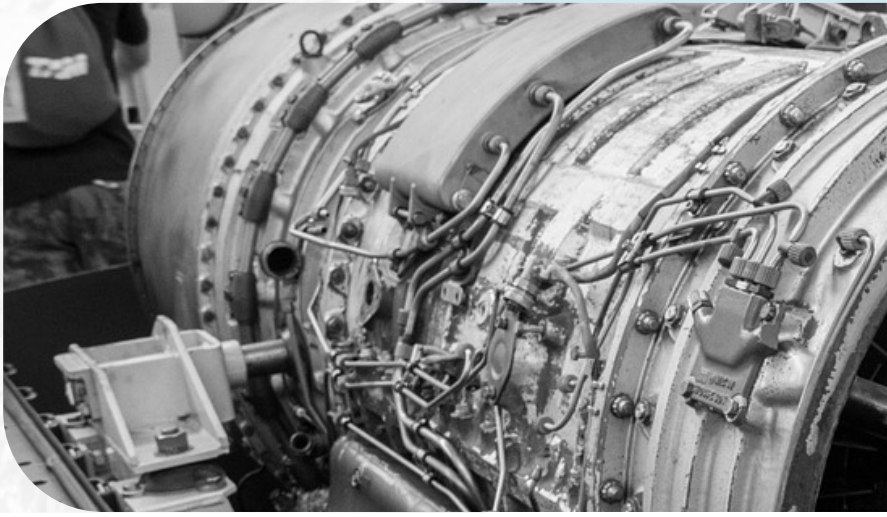


### Bearings & Seals

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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