

**TURBINE  
DIAGNOSTIC  
SERVICES INC.**

"The Turbine Doctor"®

Services Publication: TDS-020

# Turbine Generator Mechanical Maintenance

## Your Complete Source For:

- Portable Lube Oil Filtration
- NDE
- Borescope Inspections
- Mobile Organized Tool Sets
- Rigging
- Rotor and Valve Rack Stands
- Cribbing and Scaffolding
- Work Tables
- Grit Blasting
- Cranes
- Parts (OEM and 3<sup>rd</sup> party)
- Machining (Shop and Field)
- Balancing (Shop and Field)



Turbine Diagnostic Services, Inc. (TDS) has a staff of experienced turbine mechanical engineers and mechanical service representatives that are knowledgeable in the mechanical assembly of medium (industrial size), large (utility size) steam turbines, gas turbines and generators. TDS has an experienced millwright labor force to support and man contract and forced outage services. To support some of our Customer's requirements our crews have been annually safety trained at the Florida Phosphate Contractor Safety Training and also receive classroom training to meet the requirements of the Mining Safety and Health Administration (MSHA) regulations.

- Mechanical Maintenance for Steam & Gas
- Forced Outage Response
- Vibration Analysis and Balancing
- Technical Direction, Job Management and Outage Planning
- Steam Turbine Major & Minor Inspections
- Combustion System, Hot Gas Path, and Gas Turbine Major Inspections
- Valve Inspections
- Contract Maintenance
- Generator Maintenance
- Installations and Relocation
- Training



Overall, TDS provides all levels of outage support desired by our customers to meet their needs. TDS can provide job management, technical direction, scheduling, planning, and manpower required to conduct a complete steam or gas turbine major inspection, or fulfill any portion of the process which the customer may require assistance.

TDS has a successful record of major and minor inspections on large and medium steam turbines, gas turbines and generators. TDS can provide contract maintenance for major inspections or minor valve inspections on medium (industrial) and large (utility) steam turbine generators. Gas turbine contract maintenance is also available for combustion, hot gas path, and major inspections of small to large, land based frame gas turbines. TDS is experienced in the current large gas turbine construction and maintenance practices.

Along with the mechanical maintenance capability, Turbine Diagnostic Services, Inc. has knowledge of turbine generator controls, excitation controls, generator inspection and testing, operation, start up, troubleshooting, oil filtration, vibration analysis and multi-plane balancing services. This makes **TDS a COMPLETE TURBINE GENERATOR SERVICE COMPANY.**

**Turbine Diagnostic Services, Inc. (TDS)** is a full service turbine generator field service organization based in Odessa, Florida. We offer full mechanical and electrical service coverage, outage planning and scheduling, parts procurement, site labor, job staffing and management. TDS maintains an expert and experienced workforce of startup engineers, mechanical turbine engineers, mechanical service representatives, generator engineers/specialists, excitation control engineers, turbine control engineers, control and vibration technicians, and turbine millwrights. TDS specializes in conducting steam & gas turbine generator planned & emergency maintenance controls troubleshooting, and vibration analysis & balancing services.

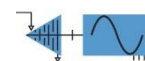
We are available for your planned outages, or immediately to support your emergency assistance with any mechanical or control failure forced outages.

**Contact us at:**

For Info: (727) 375 - 8700

National 24 Hr. Emergency Service  
Toll Free (877) 969 - 0972

[www.turbinedoctor.com](http://www.turbinedoctor.com)



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