



Powered by  Fuji Electric

# Generator Division

## Generator Inspection, Maintenance, & Repair

Reliable Turbine Services, LLC is a premier generator service provider, powered by Fuji Electric, a world leader in turbine/generator manufacturing. This relationship brings a wealth of technical and engineering experience to RTS. Our personnel and equipment can handle all planned or unplanned generator maintenance outages. We strive to keep your equipment running as efficiently as possible.

Our OEM trained specialists and engineers have the prowess to test, repair, and maintain generators of all sizes and types.

### Generator Assessment Testing and Evaluation (GATE)

#### GATE-1, GATE-2, and GATE-3 Generator Testing & Inspection Programs

- ▶ **GATE-1**  
Minor inspection with generator rotor in place
- ▶ **GATE-2**  
Major inspection (rotor out) with limited testing
- ▶ **GATE-3**  
Major inspection with extensive testing

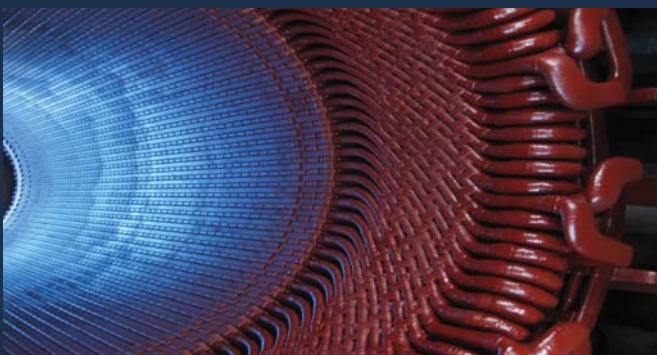
The RTS GATE program will ensure that your generator will receive the optimal series of custom tailored tests and inspections to ensure reliable operation.

RTS' generator testing and inspections expertise will provide you the confidence that your generator will produce power reliably once returned to service.

### Quality Assurance

Our combined years of dedicated service help us understand the importance of timely delivery, without sacrificing quality. The standards and procedures included in our quality management system allow us to meet or exceed OEM requirements.

Safety is our Priority, Quality is our Standard



## Stator Capabilities

- ▶ Connection ring / parallel ring repairs
- ▶ End winding resonance detection and mitigation "bump test"
- ▶ All standard testing including Power Factor and ELCID testing
- ▶ End winding re-blocking/re-tying
- ▶ End winding stiffening treatment
- ▶ Stator Rewinds; Liquid and Conventional
- ▶ Corona/partial discharge abatement
- ▶ Stator re-wedging
- ▶ Flux probe installation/troubleshooting
- ▶ Stator water cooling system hydraulic integrity testing
- ▶ High voltage bushing replacement
- ▶ Temporary high voltage bushing and terminal plate leak repairs ("damming")
- ▶ Replacement of stand-off insulators
- ▶ Stator core iron repairs
- ▶ Silver plating (electro-plating) bus work mating surfaces



## Rotor Capabilities

- ▶ Brushless exciter test, inspection, and complete overhaul
- ▶ Field ground detector troubleshooting - RF and Optical systems
- ▶ Retaining Ring removal and inspections



- ▶ Non-destructive testing (NDT) of retaining rings
- ▶ Collector Ring machining
- ▶ Collector Assembly replacement
- ▶ Radial hydrogen seal replacement
- ▶ Complete rotor rewinds and high-speed balancing



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