

TOSHIBA is one of North America's leading turbine/generator service providers. Through our sales, engineering and scheduling professionals and an experienced workforce, we ensure quality and value. Extensive in-house steam turbine modernization capabilities include condition assessment, steam path and casing repairs, replacement parts and valve retrofit upgrades. Complete vertical integration at our Milwaukee Service Center enables single-point contract responsibility for outage management and field services.

### We understand the critical nature of outages.

Toshiba's high-bay facilities, with a 300-ton lifting capacity and wide-ranging machining capabilities, make us unique in the power generation service industry. Turbine services include:

- *Steam path assessment and repairs*
- *Blade and replacement parts manufacturing*
- *Casing repairs*
- *Valve inspections and repairs*
- *Valve upgrades*
- *High- and low-speed balancing*



### Turbine Modernization Services

- *Steam path components*
- *Steam path repairs*
  - *Blade inspection/analysis*
  - *Blade repairs*
  - *Blade manufacturing*
  - *Erosion shield replacement*
  - *Seal repairs and replacement*
  - *Diaphragm repairs*
- *Casing repairs and re-rounding*
- *Bearing repairs*
- *Valve inspection and repairs*
- *Governor inspection and repairs*
- *NDE and condition assessment*



## High- and Low-Speed Balancing

Toshiba maintains both stationary and portable balancing equipment to fit your job requirements. Our experienced dynamics engineers provide comprehensive vibration evaluation, analysis and reporting, assuring that proper balance is achieved before your equipment is returned to service.



## New Component Manufacturing

- **Parts manufacturing**
  - Stationary and rotating blades
  - Valve stems and seats
  - Steam seals
  - Bushings
  - Studs and nuts
- **Specialty welding services**
  - Stellite overlays
  - Parent material repairs

