



Magnetech™
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Magnetech™
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**Generating
Station
Services**





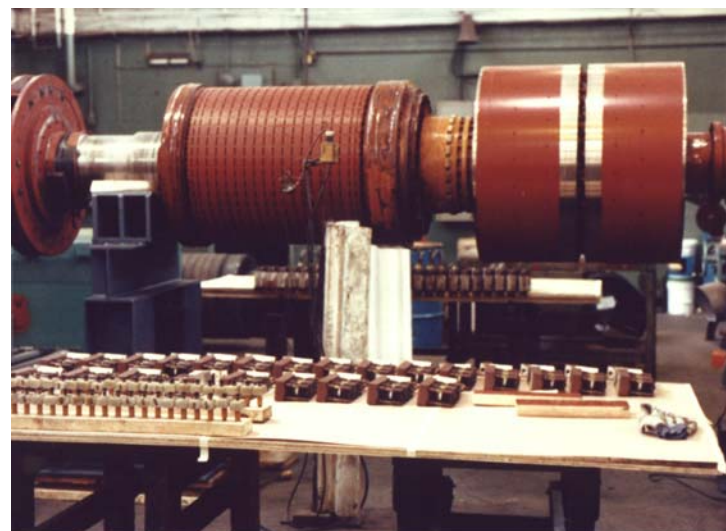
Our field service technicians, engineers, supervisors, laborers and machinists can handle all your generating station repair and maintenance projects.

We offer 24/7 service in our shop or on-site.

Generating Station Services In Action



Montour Power Plant



Westinghouse 4400 kW, 3600 rpm, 535 V brushless exciter with diodes and fuses rebuilt for electric utility..

MOTOR/GENERATOR SERVICES

Total Motor Management™ (TMM)

- Inventory & spare consolidation
- Stores & warehouse management
- Warranty tracking & repair standards
- Performance enhancements & needs assessment
- TMM performance guarantee

Recondition, Rewind, Remanufacturing

- All manufacturers
- 12 ft. VPI vessel
- 13.8 kV test floor voltage
- Total mechanical repairs
- Hydro Generators

Field Services

- Total outage maintenance
- Removal and installation
- Cleaning and reconditioning
- Dry ice cleaning
- Alignment and balancing

Engineering & Diagnostic Services

- In-house engineering staff
- Performance verification and analysis
- Motor re-design and UL re-rating
- Root cause failure analysis
- Reactor coolant pump motor repairs
- Boiler feed pump motors, including rotor redesigns
- Circulating water pump motors
- Induced draft and forced draft fan motors, including Westinghouse PAM motors
- Drive applications and drive services
- Vacuum pumps
- Project management

MECHANICAL SERVICES

- Fan balancing
- Compressors - reciprocating & rotary screw
- Eddy current couplings and clutches
- Dynamic balancing
- Welding
- Shaft and journal repairs
- Chrome & nickel plating
- Heat exchanger repair, testing, re-tubing
- Liquid ring & vacuum pumps

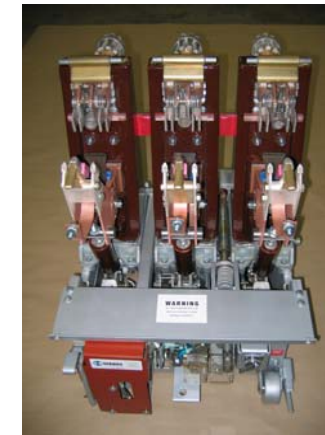
CRANE SERVICES

- Overhead cranes
- Coal hoists
- Service & repair
- Conversions & upgrades
- OSHA inspections

POWER SYSTEM SERVICES

Transformers

- Generator step-up, station auxiliary, unit substation
- Installation & commissioning
- Field maintenance and testing
- Oil analysis & oil processing
- Oil pump and cooler service
- Failure Analysis
- Engineering consulting
- Isolated phase bus repair and restoration



Circuit breaker repaired and retrofitted for Cinergy, before and after.

Voice of the Customer: We were very happy with the switchgear and breaker work. Everything looks great.!

Circuit Breakers

- Low & medium voltage repairs & refurbishment
- Low voltage trip unit retrofits
- Medium voltage air-to-vacuum conversions
- Low voltage/medium voltage starter conversions
- Oil circuit breakers
- SF6 circuit breakers

On-Site Bus Fabrication

- Emergency bus restoration
- Shear, bend, punch up to 1/2" x 6" CU bus
- Custom designed travel trailer
- Common size CU bus bar in stock
- On-board hardware and insulator inventory
- Quick, consistent, repetitive bends
- Intricate bus configurations
- Rectifier bus additions
- Epoxy coated fluidized bus

Field Services

- Main substation maintenance & testing
- Turnkey transformer & switchgear installations
- Distribution substation maintenance & testing
- Project management

TURBINES

- Steam, hydro, coal and gas
- Dye penetrant & magnetic particle testing
- Annual overspeed trip testing
- Blade & shaft repair
- Rebuild linkage, trip & throttle valves
- Steam chest repairs / valve rebuilds
- Tight wire alignment

PREDICTIVE MAINTENANCE

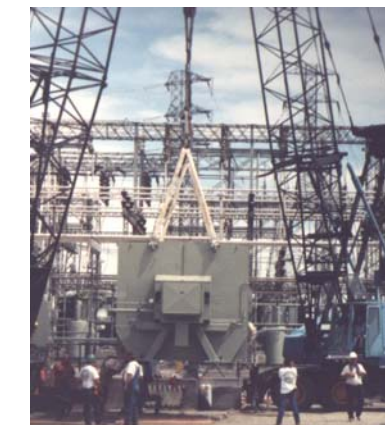
- Vibration spectrum analysis
- Tribology & oil particle analysis
- Ultrasonic testing
- Thermographic imaging

PREVENTATIVE MAINTENANCE

- Laser alignment
- On-site commutator turning & undercutting
- DC motor brush wear analysis
- DC motor brush maintenance programs
- Motor cleaning & lubrication programs
- Drive system troubleshooting
- Contract maintenance programs
- Electrical testing
- Equipment assessment
- Remote visual inspection

NEW EQUIPMENT SALES

- Motors & Drives
- Compressors / Air Dryers
- Crane Systems / Components
- Couplings
- Switchgear
- Liquid, Vacuum, & Ejector Pumps
- Motor Controls
- Transformer parts
- Spare Parts



Magnetech installed new synchronous condensers for Pacific Gas & Electric. Ongoing Maintenance provided since initial installation.