

Shop Operations: Electrical Rotating Apparatus Services

When you need repair or rewinding of any type of electrical motor, you'll find the expertise you need at TVA's Power Service Shops.

Our Rotating Apparatus Department, or motor shop, repairs and rewinds all types of electric motors, from fractional horsepower sizes to the largest motors in any system. Our repair services extend to nuclear-grade motors and are backed by 10 CFR 50 (Appendix B) and ANSI N45.2 quality assurance programs and a commercial-grade procurement and dedication program for all components.

The motor shop employs ANSI-TCIA Level II Nondestructive Examination Services and ANSI N45.2.6 Inspection Services. It features contamination-controlled work zones for nuclear components. We can perform nuclear and commercial motor repairs in our shop or at your facility during outages.

Our crane and elevator experts perform required inspections and can coordinate repairs through our other Power Service Shops departments. We also have certified crane operators available to support inspection and repair crews.



In addition, our shop and field services and equipment include:

- A 12-foot diameter vacuum pressure impregnation system
- Load testing for motors up to 875 hp and vertical motors up to 1,000 hp
- Motor and generator dry-out using automated machines rated at 1,200 amps
- Generator coil cutouts
- Motor core restacking
- Generator rotor rewinds and refurbishment of field poles and exciters
- EL CID testing for core iron
- Wedge tightness detection
- Motor and generator connection welding utilizing induction welding techniques
- Computer balancing
- An 11- by 8-foot burnout oven and a 13- by 13-foot curing oven
- A test facility for test running radioactively contaminated motors
- No-load testing for motors up to 8,000 hp
- Rotating exciter refurbishment
- A 7,500 amp, 640 volt DC mobile exciter for temporary installation.



TVA has been in the power business for more than seven decades. That means a level of expertise honed over millions of work-hours at every type of plant and facility. Put that experience to work for your plant by contacting us today.

www.tvapowerserviceshops.com