NATIONAL ELECTRIC COIL®

Our Experience Generates Results!

800 King Avenue, Columbus, Ohio 43212 • 3330 East 14th Street, Brownsville, Texas 78521

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High-Speed Balancing & Full-Speed Electrical Testing

National Electric Coil Leads Competitors in Balancing Turbogenerator Rotor Fields, High-Speed Exciters & Salient Pole Rotors

With peak values of no more than 1 mil, NEC leads the industry in balancing your rotor down to the lowest possible vibration levels. NEC's engineers and skilled technicians also are experienced with all aspects of rotor balancing and testing.

Balance Facility

- Ability to accommodate rotors up to 45 feet long
- 30-, 50- and 85-ton cranes for pit service
- Rail-guided transport dollies for the larger rotors above crane capacity, up to 100 tons
- Large inventory of bearings and stub shafts to fit nearly every rotor
- SCR Digital Drive System and 4000 HP drive train motor
- System redundancies and 24/7 availability
- Proven track record balancing large three-bearing rotors, as well as, exciter assemblies, salient pole rotors and other rotating electrical apparatus

Testing Capabilities

- Overspeed testing at rotations up to 3960 rpm
- Running electrical tests for *Insulation Resistance, Impedance and Flux Probe*
- Rotor *Thermal Sensitivity Testing,* including performing *Heat Runs* and locating *Running Shorts*
- *Absolute Vibration Monitoring System* for detection of shaft vibration, as well as seismic probes for bearing and pedestals

NEC's balance facility is one of the few in North America capable of performing thermal sensitivity testing. Rotors can be tested in cold and hot condition, allowing the tracking and plotting of changes in vibration.

Call Us Today!

If you have additional technical questions, please call or email Bill Moore at (614) 488-1151 x125, bmoore@national-electric-coil.com or Steve Jeney at (614) 488-1151 x105, sjeney@national-electric-coil.com

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ISO 9001 Certified Quality Management System
For the Design, Manufacture & Reconditioning of Rotating Electrical Equipment & Related Components

NEC Balance Facility Features

(1) Balance pit extends to hold rotors up to 45 feet in length. (2) For large rotors, bearing pedastals are matched to the stiffness and weight of rotor. (3) Control room with automated speed and testing equipment. (4) High-speed turbogenerator rotor balancing eliminates need for field balancing; allows running electro-mechanical testing. (5) Exciter assemblies can be balanced. (6) Salient pole rotors also can be balanced.