



Overview

GE has been manufacturing and installing its GEGARD 400 coil system for more than 30 years on motors operating up to 7000 V. This rugged insulation system provides an excellent seal for form-wound coil applications when VPI is not possible. This coil system also enabled the effective in-situ rewind of large motors, allowing GE to reduce associated repair cycle times and eliminate expensive transportation cost.

Building on this success, GE created a process by which the insulation strength of the GEGARD 400 coil was increased so that it could be used on motors operating up to 14,000 V. The new coil system has been tested to rigorous GE coil standards, and it passed all tests with superior results.

The GEGARD 400 HV works with all large AC motors and is ideal for energy-intensive industries where uptime is critical, including, but not limited to:

- Utilities (power generation and water)
- Pulp and paper
- Mining
- Metals
- Manufacturing
- Cement



Key Features

- Applicable for voltage levels between 7-14kV
- A resin-rich, flexible coil insulation system, not a "hard coil"
- Excellent voltage endurance life and surge withstanding capability
- Very low partial discharge magnitude enhances system reliability and longevity
- Less expensive than VPI systems

Benefits

Improved repair cycle time

- In-situ rewinds can reduce repair cycle times as transportation periods are eliminated
- Eliminates the time required for a VPI process

Cost avoidance

- Costs for transportation, removal and installation are eliminated/reduced when rewinds are completed on-site

Lower risk

- In-situ rewinds mitigate some health risks to plant employees by eliminating potentially hazardous rigging and lifting operations necessary for the removal and installation of the failed motor
- The risk of loss or damage associated with transporting the failed motor are essentially eliminated

Lower total cost of ownership

- Reduced long-term maintenance and repair costs
- Increased equipment reliability and availability
- Optimized efficiency and operating performance

Flexibility

- Applicable for motors with operating voltages up to 14,000 V
- Not limited by horsepower or motor speed

GE quality

- Proven, repeatable repair techniques born from GE's rich history of motor manufacturing and repair
- GE's Six-Sigma quality standards guarantee that consistently effective methods and materials are used on every rewind

For more information, contact your local GE Energy office, call 1-888-GE4-SERV or 540-378-3280, or visit www.ge-energy.com/industrial