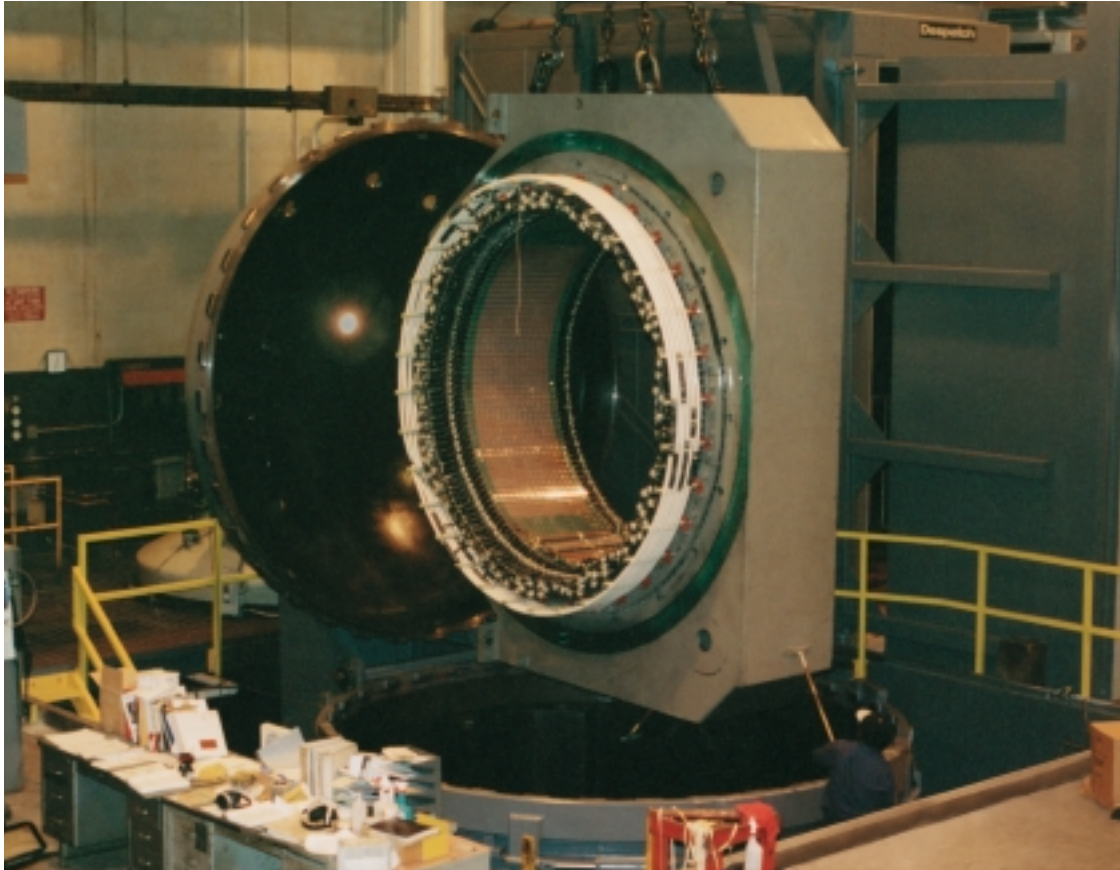




Wound Apparatus

Manufacturing Equipment Upgrade



14,000 HP, 12,500 volt motor stator being removed from the new VPI chamber.

As part of Electric Machinery's response to customer requirements and continuing investment for the future, we have installed a larger capacity vacuum pressure impregnation (VPI) chamber, an additional resin storage reservoir, a larger oven, a more powerful air dryer, larger interface piping and hardware, control upgrades, and other facility modifications to upgrade our large VPI capability.

The VPI upgrade provides a larger diameter and deeper chamber. This allows us to use the preferred **full** VPI process and the superior DURAGUARD insulation system with its outstanding dielectric properties, its superior moisture and chemical resistance, its full class F thermal capability, and its superb epoxy system mechanical integrity on larger units including our large slow speed synchronous motors up to 18,000 HP. This new equipment also incorporates system improvements that reduce the process cycle time, simplify the system's maintenance while providing outstanding vacuum performance.

This new improved system, with increased capability, exceptional vacuum levels and enhanced system performance, has already exceeded our expectations by successfully processing several larger units with improved insulation characteristics.

ELECTRIC MACHINERY COMPANY

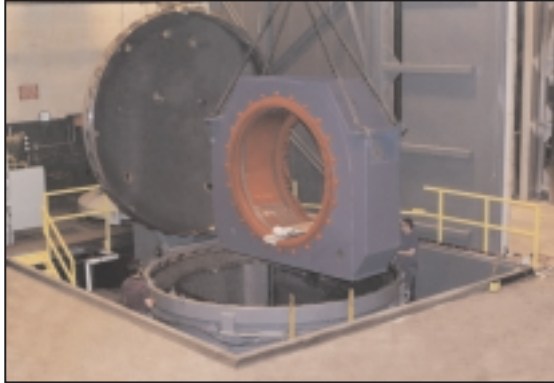
800 Central Avenue
Minneapolis, MN 55413
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VPI SYSTEM UPGRADE

Wound Apparatus

Manufacturing Equipment Upgrade

VPI SYSTEM UPGRADE



Customer's stator repaired with partial coil replacement being lowered into the VPI chamber.



Another large stator no longer requiring B-staging.

The upgraded Vacuum Pressure Impregnation system allows EM to use the full VPI process and the DURAGUARD insulation system, with the following benefits, on even larger units.

- ▲ The DURAGUARD vacuum pressure impregnation process is the key to void-free coils as it acts as a premium measure toward ensuring reliable operation.
- ▲ Use of the full VPI process and DURAGUARD insulation system on units up to 18,000 HP.
- ▲ The DURAGUARD insulation system is impervious to water, oil, chemicals, and abrasives.
- ▲ An epoxy-mica insulation system.
- ▲ Full class F (155C) thermal capability.
- ▲ Outstanding dielectric properties.
- ▲ The superb mechanical integrity of an epoxy resin system.
- ▲ Greater insulation and product reliability.
- ▲ The most advanced concepts and applied technology in formed coil insulation.
- ▲ Form wound apparatus rated 480V to 15,000V.
- ▲ EM experience...providing reliable insulation solutions for over 100 years.



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