



Stator Core Testing

Dedicated People, Quality Products, and Above All, Service

ELectromagnetic **C**ore **I**mperfection **D**etection (**EL CID**) is the comprehensive method of testing the interlaminar insulation of the stator core. When eddy currents are elevated, hot spots appear in the stator core that may cause deterioration of the core lamination insulation. If the hot spots are not discovered, permanent damage may occur to the stator winding insulation and core iron.

EL CID testing identifies and localizes existing damage that reduces planned or forced outages.

Advantages

- Setup time and safety hazards are greatly reduced over the traditional high current loop ring flux testing
- Identifies further damage
- Reduces safety hazards
- Extremely low excitation power demand

Causes of Stator Iron Core Damage

- Physical damage caused by the rotor core
- Compression plate relaxation
- Loose bars and wedges
- Foreign magnetic objects
- Thermal core creeping
- Interlaminar iron core insulation failure
- Oil contamination
- Incorrect wedging system installation



SCHOFIELD
715.359.3155 or 800.283.8332

DULUTH
218.729.3375 or 800.943.9549

APPLETON
920.730.0203 or 800.283.5564

MENOMINEE
906.864.2500 or 800.864.2507

STURTEVANT
262.886.1875 or 800.367.7676

MINNEAPOLIS
763.780.3234 or 800.290.9320

ROTHSCHILD
715.359.4860 or 888.246.1249

HYDRO SOLUTIONS
715.359.0551 or 877.258.5128