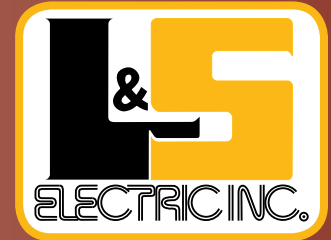


Power Services



Dedicated People, Quality
Products, and Above All, Service.

Our Power Service groups provide complete service for all power system components, regardless of voltage. Our services include troubleshooting, commissioning, turnkey installation, repair, calibration, testing, and system design, all to ensure reliability and efficiency for energy users throughout a variety of industries.

With total on-site and in-shop services available 24/7, L&S Electric is your complete source for all your power service needs.

Breakers

- Contact resistance
- Insulation resistance
- Power factor
- Primary injection (High current testing)
- Repair

Cables

- AC/DC Hi-Pot
- Partial Discharge
- VLF
- Tan-Delta
- Shield Integrity

Commissioning

Check, inspect and test every operational component of the project including, but not limited to:

- Print verification
- Design review
- Apparatus
- Instruments transformers
- Relays
- Controls
- Communications

Infrared

- Infrared scans of electrical equipment, boilers, building envelopes, etc.

Grounding

- Step and touch potential
- 3 and 4 point fall-of-potential
- Point-to-point resistance
- Assured grounding system management and testing

Engineering Services

- Arc flash studies
- Circuit loading and voltage drop analysis
- Coordination studies
- Gap analysis of electrical safety programs
- Harmonics, current, and voltage analysis
- Power factor studies
- Power quality analysis
- Project management
- Retrofit projects
- Short circuit analysis
- Specifications review and development

Motor Drives and Soft Starters

- Commissioning
- Wiring verification, programming, and application assistance
- Repair on-site and in-shop

Motor Testing

- Surge comparison
- Megger PI and hipot
- Offline PdMA testing
- Winding resistance

Plant Shut-Down Switchgear Service

Relay Testing

- EM and Microprocessor
- Verification of settings
- Testing and calibration of pick-ups and timing
- Wiring check of PT and CT circuits
- Logic verification for active outputs
- Input/output verification
- Relay retrofits

Transformers

- Power factor
- Transformer turns ratio (TTR)
- Frequency analysis
- Winding resistance
- Insulation resistance
- Oil samples



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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