

Field evaluations

Inspections include:

- Overall construction
- Transformers/Motors and drives
- Relays and contactors
- Circuit breakers and fuses
- Switchboard/Solar bus taps
- Enclosures
- Grounding
- Damaged components
- Electrical clearances
- Guarding of live parts
- Wiring methods and ratings
- Equipment drawings/markings
- Nameplate information
- Suitability for environment
- Emergency shutdown

Test procedures typically include:

- Heat rise testing
- Insulation resistance testing
- Dielectric withstand testing
- Leakage current testing
- Input voltage and current tests
- Functional testing of safety circuits, interlocks and emergency off actuators

Code Compliance:

Code compliance evaluations ensure that electrical products meet industry standards, are installed properly, and that products meet the applicable codes, standards and safety orders for the installation.



Other Services Include:

Commissioning & Startup

- Equipment installation
- Acceptance testing and calibration
- Full life cycle commissioning
- LEED commissioning
- Commissioning plan development
- Project management
- Performance baselining
- Integrated systems testing
- Code compliance evaluation
- Personnel training

Electrical Maintenance Services

- Maintenance planning and program development
- Turnaround and outage support
- Preventive maintenance
- Periodic inspection, cleaning and lubrication
- Equipment calibration
- Emergency response and recovery services
- Electrical system troubleshooting and repair
- Transformer vacuum filling
- Insulation oil filtration

Electrical Testing Services

- Standby and emergency system testing
- Off-line partial discharge testing
- Sweep frequency response analysis
- Dielectric frequency response testing
- DC high potential testing
- VLF high potential and tan-delta testing
- Cable fault location
- Ground fault testing
- Ground resistance testing
- Breaker time travel analysis
- Power quality/line disturbance analysis
- Battery testing
- Voltage/load recording
- Load bank testing
- Magnetic field (EMF) testing and mitigation
- Contact resistance testing
- Insulation resistance testing
- Insulation power factor testing
- Motor surge comparison testing
- Transformer turns ratio testing
- Winding resistance testing
- Frequency response analysis

Online Predictive Diagnostics

- Equipment inspection
- Infrared/thermography
- Partial discharge testing
- Ultrasonics
- Oil analysis

Engineering Services

- Short circuit/coordination studies
- Arc flash solutions
- Single-line diagram development
- Power quality studies
- Harmonic analysis
- Transient stability studies
- Load flow analysis
- Power factor studies
- Grounding studies
- Voltage imbalance/regulation studies
- Power system reliability studies
- Reliability centered maintenance studies (RCM)

Power System Protection Services

- Power system studies
- System logic and control settings
- Protective system functional testing
- End-to-end testing
- Relay maintenance, cleaning and calibration
- Relay design/integration
- Fault analysis/troubleshooting
- NERC compliance audit
- Turnkey relay retrofits, upgrades, and replacements

Life-Extension Services

- Modernization of outdated and under-rated equipment
 - Circuit breakers
 - Protective relays
 - Switches
- Direct replacement breakers
- Circuit breaker repair
- Transformer repair/replacement
- Replacement parts
- Emergency services

Educational Services

- On-site, online and classroom courses, including:
 - Personnel safety
 - Policy and procedures
 - Regulatory compliance
 - New equipment training
 - Maintenance practices
- Personnel skills and training assessments

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