

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.



eti Conformity Services
is certified as a

**FIELD EVALUATION
BODY (FEB)**

by the International
Accreditation Service
(IAS)

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
- High potential 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
- VLF testing

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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