



**ELECTRICAL AND PREVENTATIVE MAINTENANCE SERVICES**



- Infrared Testing
- Ultrasound Testing
- Multi-Year PM Programs
- Power Distribution Systems
- Generators and UPS Systems
- Substation and Transformers
- Incoming Service Retrofit/Upgrades
- Medium Voltage Cabling and Terminations
- Solar and Renewable Energy
- Fire Alarm and Security Systems
- Fiber and Data Cabling
- Pole and Line Work
- Interior, Exterior and Pole Lighting
- Conveyor and Process Equipment
- Hazardous/Classified Location Electrical Apparatus
- Automation, VFD and PLC
- Control and Process System Wiring
- Proactive Preventative Maintenance
- Power Quality Analysis

**INDUSTRIES AND FACILITIES WE SERVED**



- Petroleum
- Refinery and Chemical
- Manufacturing
- Food Process
- Water/Sewage Treatment
- Educational Institutes and Universities
- Hospital, Health Care and Pharmaceutical
- Warehouse and Distribution Centers
- Cold Storage
- Agricultural
- Office and Retail
- Casino and Hospitality
- Cogeneration and Power Generation
- Nuclear Power
- Transit
- Private Utility Services

**POWER QUALITY**

- Load Flow/Voltage Drop
- 1-Line Drawings (CAD)
- Power Quality
- Harmonics Measurement
- Voltage Disturbance Analysis
- System Startup/Commissioning
- Troubleshooting
- Design Services

**SWITCHGEAR INDOOR/OUTDOOR**

- Bus Duct Assessment - Leaks
- Insulator Replacement
- Insulation Resistance
- Corona Damage Repairs

**TRANSFORMERS**

- Oil ATM Screen Tests
- Dissolved Gas in Oil Analysis
- Furan Analysis (Oil)
- PCB Analysis
- Transformer/Bushings
- Oil Carbon/Moisture Extraction
- Load Tap-Changer Service
- Oil Reclamation
- Oxidation Inhibitor Service
- Turns Ratio Test
- Dielectric Absorption/PI Index
- Insulation Power Factor

**INSTRUMENTS TRANSFORMERS**

- CT, VT, PT, CPT
- Ratio and Polarity
- Burden/Saturation
- Insulation Power Factor

**REGULATORS GROUND SYSTEMS**

- Earth Resistance Studies 4-Point Studies
- Grid Resistance Measurements 3 and 4-Point Studies
- GFI Calibration and Testing
- High/Low Impedance Grounding Systems

**BATTERY SYSTEMS**

- DC Voltage Measurements
- Specific Gravity
- Cell Impedance Measurements
- Charger Calibrations
- Load Bank Testing

**CABLE TESTING: LOW/MEDIUM VOLTAGE**

- DC Hipot
- VLF (Very Low Frequency) AC
- Dielectric Absorption
- Insulation Resistance
- Shield Continuity
- Cable Route Tracing

**CIRCUIT BREAKERS: LOW VOLTAGE POWER**

- Primary Current Injection
- Secondary Current Injection
- Contact Resistance
- Insulation Resistance
- Function Testing
- Retrofits - Solid State
- Rebuilding/Reconditioning

**CIRCUIT BREAKERS: MEDIUM VOLTAGE**

- Contact Resistance
- Time/Motion Analysis
- Vacuum Bottle Integrity Testing
- Air/Oil/SF6/Vacuum
- Leak Testing and Repair
- Function Testing
- Rebuilding/Reconditioning

**LOW AND MEDIUM VOLTAGE GENERATORS AND MOTORS**

- Motor Control
- Dielectric Absorption
- Polarization Index
- Load Bank Testing
- Insulation Resistance

**PROTECTIVE RELAYS**

- Programming
- Operational Testing
- Calibration

**EMERGENCY SYSTEMS**

- Engine Driven Generators
- Uninterruptible Power Systems
- Automatic Transfer Switches
- Emergency Lighting
- Load Bank Testing