

Benefits

Proactive Maintenance of Critical Electrical Assets

Electrical power is the pulse of your business. It's vital to your operations, but it can also be dangerous and costly. While large power transformers are among the most reliable equipment used in electrical power systems, failures do occur. And with these failures, profits and people can suffer. Replacing a transformer can take several weeks resulting in serious financial and productivity losses. In many cases, a transformer can be repaired but only if the problem is caught before it escalates.

Identifying and resolving problems starts with performing electrical testing, maintenance, and engineering services provided by Electrical Reliability Services, Inc. (ERS). Proactive maintenance gives you the information you need about the performance of your transformer and related electrical assets. You'll be able to make smarter, more profitable decisions while protecting your people and operations.

Benefits

- Eliminate unplanned downtime through routine inspection and maintenance
- Avoid substantial financial loss associated with service disruptions
- Minimize emergency repairs
- Ensure ongoing reliability of electrical distribution systems

Substation Services

- Transformer Installation, Acceptance Testing, and Startup
- On-site Inspection and Testing
- Insulation Testing
- Fluid/Oil Analysis and Condition Trending
- Insulating Fluid/Oil Reconditioning
- Failure/Fault Analysis
- Tap Changer Repair/Replacement
- Leak Repairs
- Gasket/Bushing Repair
- Substation Grounding
- Cooling Upgrades

Acceptance Testing and Startup

- Protection Controls Functional Testing
- Insulation Power Factor Testing
- Transformer Turns Ratio (TTR)
- Insulation Resistance Testing
- Dielectric Barrier/ Insulation Integrity
- Winding Resistance Testing
- Sweep Frequency Response Analysis (SFRA)
- Leakage Reactance/Short-Circuit Impedance Testing

Preventive Maintenance

- Visual and Mechanical Inspection
- Component Maintenance
- Infrared Testing
- Power Factor and Dissipation Factor Testing
- Protective Relay Testing
- LTC Inspections and Service

- Fluid/Oil Processing Services, including Oil Analysis
 - Nitrogen Gas Tests (TCG and %O₂)
 - Oil Analysis (use of independent lab)
 - Dielectric Strength Testing
 - Water in Oil Analysis (Karl Fischer)
 - Dissolved Gas Analysis (DGA)
- Test Report with Recommendations

Online Predictive Maintenance

- Visual Inspection
- Thermographic/ Infrared Testing
- Partial Discharge Testing
- Ultrasonic Detection
- Power Quality Analysis

Diagnostic Testing

- SWEEP Frequency Response Analysis (FRAX)
- Leakage Reactance Testing

Vacuum Processing and Oil Degassing

Emergency Services

- Transformer Leak Repair
- Complete Transformer Gasket Replacement
- Spill Cleanup/Recovery
- Fault Analysis

Electrical Reliability Services serves the United States through strategically located service centers and satellite offices. These locations provide our customers with access to local resources with direct service capability.

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- California**
Los Angeles Area Service Center
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- San Diego Area Service Center**
 5909 Sea Lion Place, Suite C
 Carlsbad, California 92010
 PH: (858) 695-9551
- San Francisco Area Service Center**
 6900 Koll Center Parkway, Suite 415
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