

## Protect Your Business. Protect Your People.

**Why test circuit breakers? Because they fail. A survey by Hartford Insurance company found that air circuit breakers represent 19.5% of power system failures. Test results by InterNational Electrical Testing Association (NETA) firms show a failure rate greater than 15%. Defective circuit breakers can allow extensive damage, cause personal injury, and make an outage more widespread when a fault occurs. They can also trip unnecessarily, causing expensive downtime. Circuit breakers are vital components in your data center, integral to UPS paralleling switchgear, generator switchgear, and other power systems critical to your electrical infrastructure and IT availability. That's why regular testing is crucial in protecting your people and your mission-critical IT equipment.**



### What Takes Place During This Test

- We perform visual and mechanical inspections and electrical tests.
- We test each contact to verify proper resistance values (inductor testing).
- We test the insulation of the breaker to ensure no shorting will occur (megger testing).
- We test the overload protection to verify the breaker will trip in a fault (primary current injection testing).
- We inject current into breaker to verify it trips in a time period acceptable to the manufacturer's published data.

### The Benefits You Gain

- Improved worker safety.
- Increased system availability.
- Reduced unplanned downtime.
- Lowered overall maintenance costs — preventive maintenance is always cheaper than emergency maintenance.
- Proper protection for your data center equipment.
- Our NETA-based tests help extend the life cycle of your equipment.

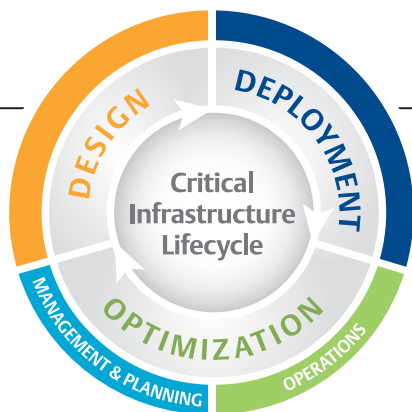
# THE LIEBERT SERVICES CRITICAL DIFFERENCE FOR CIRCUIT BREAKER TESTING

## Rely On Only The Most Qualified Technicians For Circuit Breaker Testing

Your circuit breaker testing is performed by field technicians from Emerson Network Power's Electrical Reliability Services (ERS) division. Located throughout the United States, ERS technicians are certified by the InterNational Electrical Testing Association (NETA), ensuring ongoing education and adherence to strict standards in safety and electrical testing knowledge.

- **Expertise** — We are industry leaders in electrical testing techniques. With more than 35 years in electrical testing experience and state-of-the-art tools, we deliver accurate analysis of your circuit breakers' health.
- **Resources** — Electrical Reliability Services provides a nationwide network of NETA-certified field technicians with more than 350 engineers, PEs, and field technicians in more than 40 service centers.
- **Comprehensive Reports** — You'll receive a full-featured summary containing:
  - As-found condition of the circuit breaker and the final condition after maintenance has been completed
  - Details of the circuit breaker trip setting against the original short circuit and coordination study
  - Recommendations for corrective action

All Liebert Services Testing and Assessment services ensure your Business-Critical Continuity™



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