

## Safe and Compliant Energization

Newly installed or modified electrical systems require a rigorous evaluation process before being energized. Acceptance testing verifies that the system meets all design specifications, industry standards, and safety codes.

ERS is a leading employer of level 3 and 4 NETA Certified technicians, and provides thorough and accurate Acceptance Testing Services.

### ERS Acceptance Testing:

- Ensures quality installation.
- Supports safer startup.
- Maximizes operating efficiency.
- Enhances system integration.
- Improves the accuracy of baseline data.



## Uncover Problems Before They Escalate

Acceptance testing, conducted prior to energization, offers an opportunity to uncover problems and make corrections before they escalate and become more costly. Industry studies indicate that nearly 70 percent of early electrical equipment failures can be traced back to power system design, installation, or startup deficiencies. Proactively identifying these issues through acceptance testing yields significant cost, time, and safety benefits.

The InterNational Electrical Testing Association Standard for Acceptance Testing Specifications (ANSI/NETA ATS) suggests that acceptance testing be performed by certified, independent, third parties. These qualified professionals, free from potential bias or conflicts of interest, are necessary for an objective assessment of your electrical system's functionality and adherence to code. Technicians must be both trained and experienced with the specific equipment they'll be testing and should hold industry certifications to guarantee proper testing procedures and accurate evaluation of the test results.

**Electrical Reliability Services (ERS)** has a highly skilled, NETA-certified team of testing specialists and technicians with the knowledge and experience to coordinate thorough and accurate Acceptance Testing, protecting your equipment, your operational integrity, and the safety of your facility.

### Common Issues Identified by Acceptance Testing:

- Incorrect Settings of Circuit Breakers and Relays
- Improper Relay Logic
- Wrong CT/PT Ratios
- Failure of Cabling
- Wrong Transformer Taps/Improper Ratios
- Compromised Insulation/Moisture Issues
- Improper Grounding
- Improperly Assembled Switchgear Bus Connections

## ERS Acceptance Testing Services

### **Electrical System Acceptance Testing**

Maximize your system's uptime and avoid costly interruptions with our comprehensive electrical power system assessment. We perform detailed visual and mechanical inspections, preventing unexpected downtime by ensuring that all your equipment and connections are in top condition.

### **Switchgear Acceptance Testing**

Our comprehensive verification process prevents unexpected outages by ensuring that your switchgear, the backbone of your electrical system, operates flawlessly. Additionally, we confirm that your equipment can safely manage surges and short circuits, protecting your critical systems.

### **Circuit Breaker Acceptance Testing**

Our team will perform visual and mechanical inspections, and contact resistance and pickup/timing tests to ensure your circuit breakers are in the best possible operating condition.

## ANSI/NETA ATS Procedures and Standards

From visual inspections all the way to advanced dielectric withstand voltage testing, each step of our multi-faceted acceptance testing process adheres to the industry standards defined by the InterNational Electrical Testing Association Standard for Acceptance Testing Specifications (ANSI/NETA ATS). Our team of NETA-certified technicians is committed to keeping your systems running efficiently, safely, and continuously compliant with industry standards.

### **Summary**

Electrical system acceptance testing is an essential investment that safeguards the safety, reliability, and longevity of your electrical infrastructure.

By proactively identifying and addressing potential issues, acceptance testing minimizes the risk of costly downtime, equipment damage, and safety hazards.

Independent, third-party testing provides an objective assessment and peace of mind and is a NETA best practice.

### **Next Level Reliability**

ERS' Acceptance Testing team offers unparalleled expertise and provides consistent quality service while keeping you safe and compliant.

### **More Information**

To learn more about our Acceptance Testing services, contact your local service center, visit [ERS.vertiv.com](https://ERS.vertiv.com), or call 1-877-468-6384