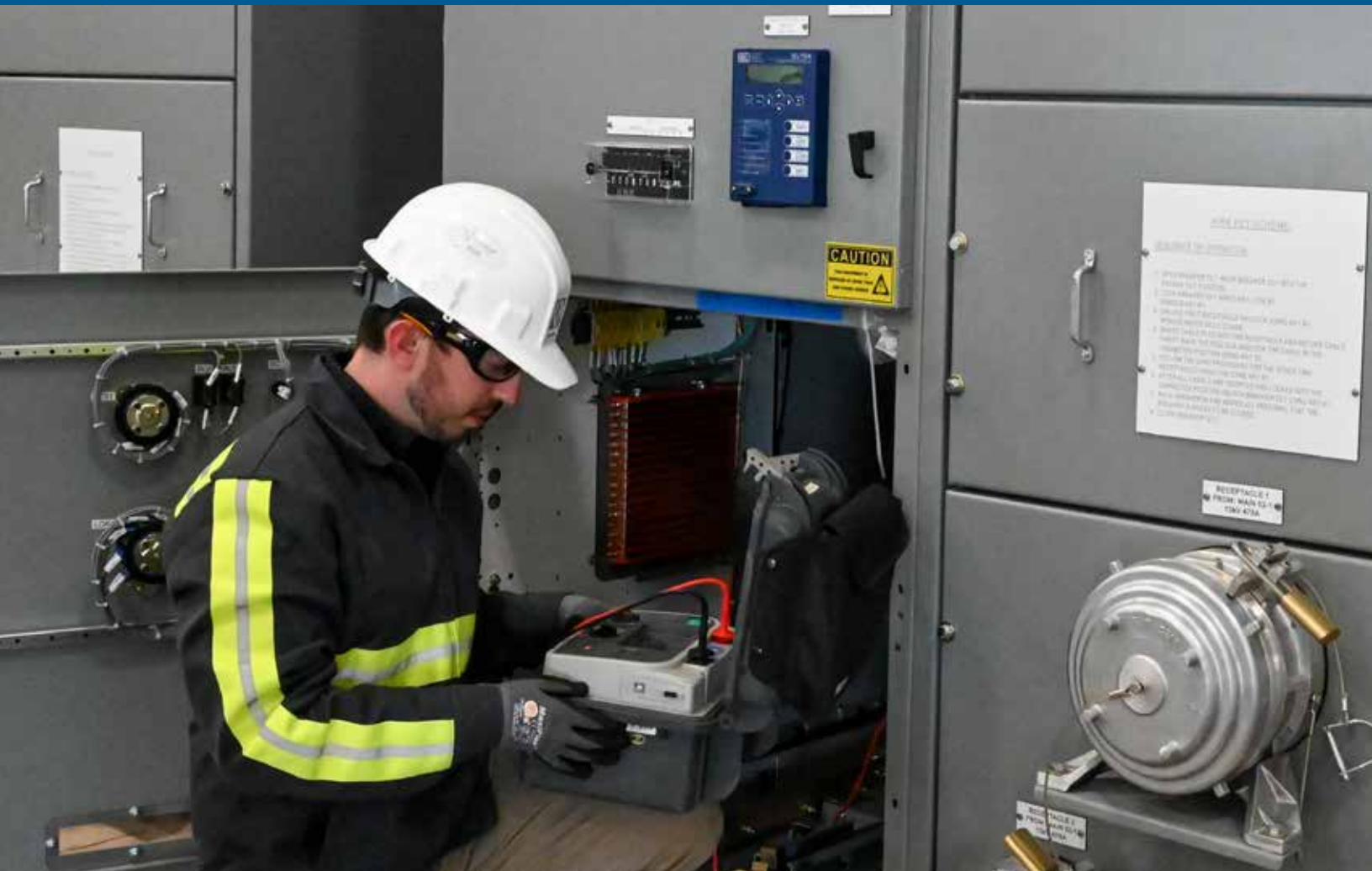




Quad Plus[®]
Testing

NETA[®]
ACCREDITED COMPANY



Quad Plus Testing:
A NETA Accredited Power Service Company
Acceptance Testing, Commissioning and Maintenance Testing
Maximize your up-time and minimize your unexpected down-time.

Connect with us



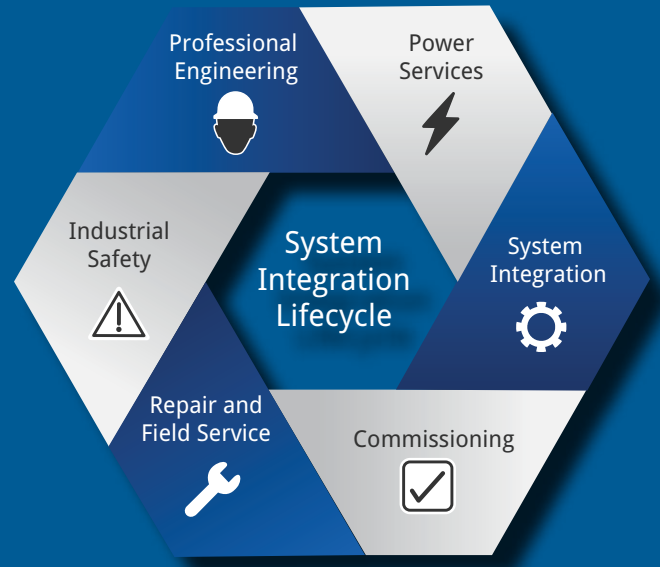
www.qp-testing.com

(815) 724-2323

About Quad Plus Testing

Quad Plus Testing is a single source engineering and technology partner. We work with our customers and can manage their entire project from beginning to end. Our design team of electrical, mechanical, civil/structural, chemical, and controls engineers have extensive process knowledge spanning from the utility pole to the motor shaft.

Quad Plus Testing is part of the Quad Plus brand and we are a NETA accredited and IBEW Local 134 Power Service company. Our engineers and technicians specialize in electrical acceptance testing, commissioning and maintenance testing for a wide range of clients and industries. We are able to identify potential issues and make recommendations for corrective actions. We pride ourselves on zero issue, first-time power-ups and electrical equipment restoration up to 345kV.



Acceptance Testing

Quad Plus Testing can perform a thorough examination of your electrical equipment following installation and wiring into your power system and make sure all equipment, switches, and connections pass the grade for safe installation and operation.

Acceptance Testing ranges up to 345kV.

- ✓ Transformer Testing
- ✓ Cable Testing
- ✓ Protective Relay Testing
- ✓ Generator/Motor Testing
- ✓ Circuit Breaker Testing
- ✓ Switchgear Testing
- ✓ Battery Testing
- ✓ Meter Testing

Quad Plus Testing provides quick and accurate turnarounds on our test reports to ensure no project gets delayed.

Commissioning

The start-up of your new electrical power system is a unique occurrence and could expose problems with the system. Commissioning by our NETA accredited professionals through whole system functional checks will ensure proper operation, identify installation problems, and assure total power system performance.

Our technicians can provide a wide variety of commissioning support including, but not limited to:

- ✓ Infrared Scans/Surveys
- ✓ Coordination Study Verification
- ✓ Start-up Support
- ✓ Utility Phasing
- ✓ Power Quality Analysis



Maintenance Testing

Establishing trends off baseline data is an important part of maintaining a reliable electrical system. Regular maintenance allows users to track the expected lifetime of equipment and make timely replacements or repairs to issues before causing a potentially costly incident. According to the NETA MTS-2019 Appendix B electrical and mechanical maintenance testing is recommended to be performed at regular intervals listed below for equipment with an average requirement.

Maintenance Testing ranges up to 345kV.

- ✓ Transformer Testing
- ✓ Cable Testing
- ✓ Circuit Breaker Testing
- ✓ Incoming Switchgear Testing
- ✓ Battery Testing
- ✓ Generator/Motor Testing
- ✓ IR Scans
- ✓ Exercise/Cleaning
- ✓ Protective Relay Testing and Replacement
- ✓ Visual & Mechanical Inspections/Checking Hardware



Circuit Breaker Repair Shop

The Quad Plus Testing process for circuit breaker repair has set the standard for the industry. We can repair, refurbish and retrofit circuit breakers. Repairs are a significant cost savings compared to purchasing new. Quad Plus Testing is PEARL certified and follows strict reconditioning and refurbishment processes as defined by ANSI/IEEE C37.59.

We inspect each circuit breaker for worn or missing parts.

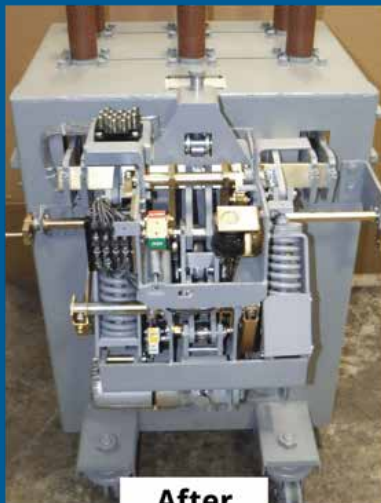
We perform electrical and mechanical testing and analysis to determine any issues with the circuit breaker.

Upon approval for repair, defective parts are removed and replaced with new parts.

A final test and inspection are performed before the circuit breaker is returned.



Before



After

Quad Plus Testing will use only OEM or manufacturer-recommended parts. We offer partial reconditioning that focuses only on problem areas or a complete teardown and rebuild of the breaker to return mature breakers into a "like new" condition.

We repair, but not limited to:

- ✓ Westinghouse
- ✓ GE
- ✓ Siemens
- ✓ Allis-Chalmers
- ✓ Square-D
- ✓ ITE
- ✓ Cutler-Hammer / EATON
- ✓ BBC/ABB
- ✓ McGraw Edison



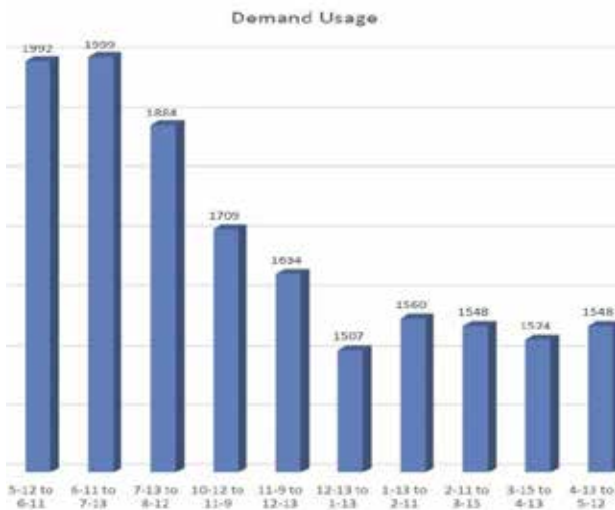
Drive Repair Service

Quad Plus Testing has the tools, ability, and experience to accurately diagnose problems with drives and controls. Our team will keep your AC and DC variable speed drives (VSD), Air Compressor variable speed drives (VSD), and Wind Turbine Drives up and running while minimizing downtime. Our resources include manuals, guides, and schematics that give us the advantage when it comes to troubleshooting and repair.

Our reputable experts have extensive knowledge of many OEM controls, boards and drives, including:

- ✓ Siemens
- ✓ ABB
- ✓ Rockwell
- ✓ Control Technique

Available with in-house repairs, expert onsite service, and remote support 24 hours a day, 365 days a year.



Power Studies and Analysis

Quad Plus Testing offers standard and specialized power system studies performed by a professional engineer, along with pre- and post-installation power quality audits to precisely target and correct power issues. These studies will help optimize your power systems performance and improve safety.

- ✓ Arc Flash Hazard Analysis
- ✓ Ground Grid Analysis
- ✓ Load Flow Studies
- ✓ Short Circuit Studies
- ✓ Flicker Studies
- ✓ Coordination Studies
- ✓ Harmonics and Flicker Analysis
- ✓ Power Factor Correction Studies
- ✓ Transient Motor Starting Analysis

Additional Services

Quad Plus Testing is structured to meet your needs throughout the system integration lifecycle. Our expert engineers can help you whether you have a new system build, need to upgrade your current system, or retrofit an outdated system. We know your systems because we have worked, been trained and certified in the industries we support. Our goal is to make the process as smooth as possible for you. We are your experienced partner helping to bring all your projects to fruition.

Additional services that we offer:

- ✓ Professional Engineering
- ✓ System Integration and Field Service
- ✓ Parts Distributor
- ✓ Machine Safety
- ✓ Industrial Automation Field Service
- ✓ Web Gauging