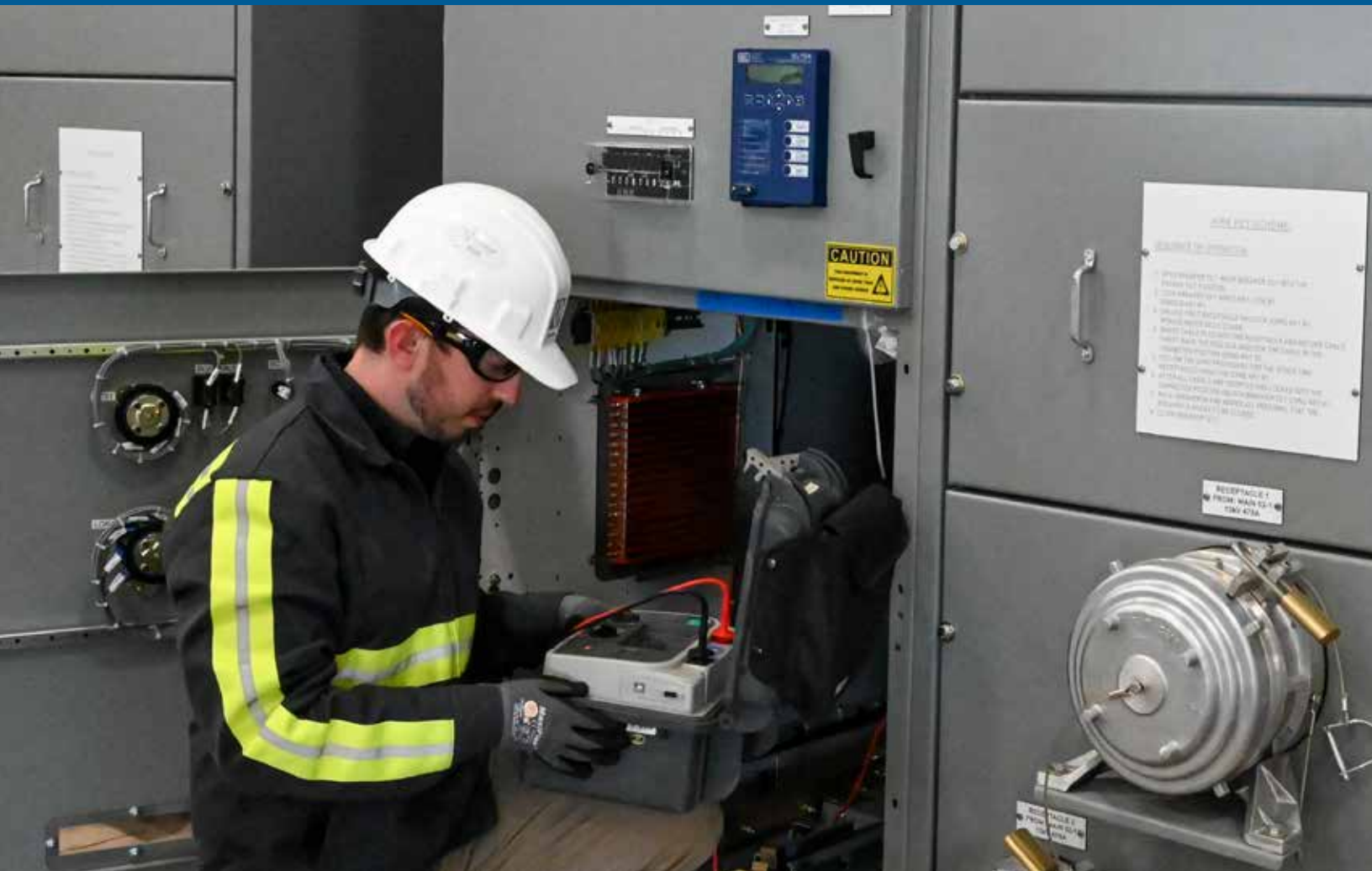




Quad Plus®
Testing

NETA
ACCREDITED COMPANY



Quad Plus Testing: A NETA Accredited Power Service Company

Power Studies, Acceptance Testing, Commissioning and Maintenance Testing
Maximize your up-time and minimize your unexpected down-time.

Connect with us



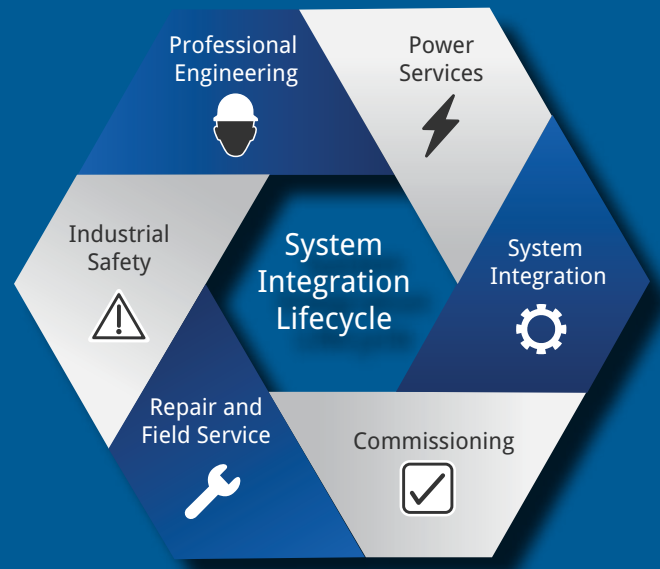
www.qp-testing.com

(815) 724-2233

About Quad Plus Testing

Quad Plus 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. We are a NETA accredited, IBEW Local 134 and 34 Power Service Company. Our engineers and technicians specialize in power studies, 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.



Measurement & Performance Studies

These studies evaluate real system behavior and support planning, troubleshooting, and optimization.

Load Report

- ✓ Captures time-based electrical demand data over days or weeks
- ✓ Shows daily and weekly peaks, patterns, and anomalies
- ✓ Establishes a baseline before system changes or expansions
- ✓ Data deliverable — no engineering capacity conclusions included

Power Quality Study

- ✓ Identifies electrical disturbances including harmonics, sags, and transients
- ✓ Correlates findings to equipment behavior and root causes
- ✓ Recommends practical mitigation options to resolve identified issues
- ✓ Covers filtering, settings adjustments, grounding checks, and ride-through solutions

Load Study

- ✓ Determines available system capacity using measured demand data
- ✓ Supports decisions about adding equipment, panels, or new loads
- ✓ Prevents over-building and identifies unintentional overloading
- ✓ Includes engineering conclusions and recommended capacity limits

Protection & Safety Studies

These studies ensure your system operates safely, isolates faults correctly, and meets compliance requirements.

Arc Flash Study

- ✓ Determines incident energy and arc flash boundaries
- ✓ Provides equipment labels and PPE requirements
- ✓ Supports NFPA 70E compliance and safe work practices
- ✓ Applicable to mobile systems and specialized applications

Coordination Study

- ✓ Ensures protective devices operate in the correct sequence
- ✓ Prevents unnecessary outages caused by miscoordinated protection
- ✓ Improves system reliability and reduces nuisance trips
- ✓ Produces time-current coordination curves and settings tables

Short Circuit Study

- ✓ Calculates available fault current throughout the system
- ✓ Verifies equipment interrupting and withstand ratings
- ✓ Identifies over-duty conditions and defines corrective actions
- ✓ Foundation required for coordination and arc flash studies

*We can also perform these studies on mobile equipment.

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.



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



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





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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.

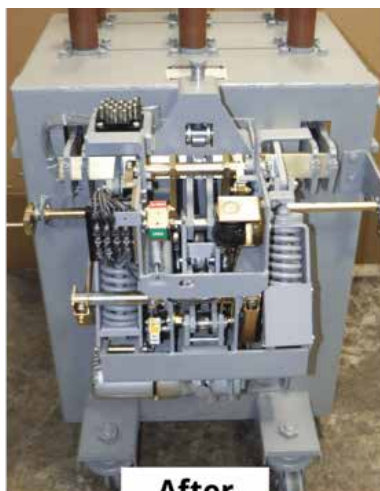
Circuit Breaker Repair Shop

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