



Powell Global Services

What We Can Offer You

Powell can support you with all your field service needs. In addition to providing extensive field service for Powell manufactured equipment, we also offer comprehensive full-service testing and maintenance programs for any and all power distribution systems, regardless of the manufacturer.

Safety First

At Powell we have a strong commitment to safety and have an outstanding safety record that is well above industry averages. We maintain this outstanding safety record and strive to improve it through the use of a dynamic safety program that incorporates our client's specific policies. At Powell, we truly are Powered by Safety®.

- OEM Field Service & Repair on Powell Products
- Complete Power System Acceptance & Maintenance Testing on Low and Medium Voltage Systems
- Part Replacements
- Electrical & Control Pre-Commissioning & Commissioning at Industrial Facilities
- Coordinate & Develop Safe Start-up Procedures
- Power Coordination Studies
- Relay Programming & Testing
- Medium Voltage Cable Terminations, Stress Cone Installation & Testing
- Breaker Servicing & Repairs
- Safety upgrades, OnBoard Racking (ERS), BriteSpot™ thermal monitoring, Arc Flash calculations
- E-House Installation/Supervision, Mechanical Checks, Point to Point & Full Commissioning Packages
- Predictive Maintenance Services - IR Scanning, Ultrasonic Testing
- Cable Bus, Bus Duct & Isophase Site Re-Assembly



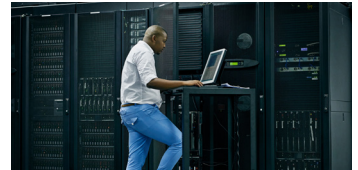
ELECTRICAL UTILITIES



OIL, GAS, & CHEMICAL



MINING, MINERAL, & METALS



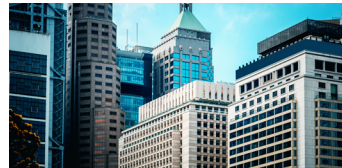
DATA CENTERS



ENERGY



RENEWABLE ENERGY



COMMERCIAL



TRANSIT



COMMISSIONING SERVICES

Powell Technicians will verify a safe start-up of your new equipment using our industry's leading electrical & mechanical knowledge. Utilizing Powell's Technical Services for commissioning your new Powell equipment can extend the warranty on your gear and provide additional peace of mind.

E-HOUSES & POWER CONTROL ROOMS

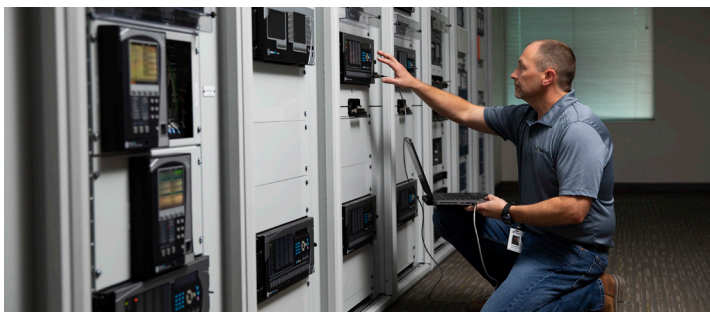
As the need for power becomes greater, so does our client's needs for properly installed and commissioned E-Houses. Powell's highly trained personnel bring extensive experience to our E-House commissioning capabilities. We can help with all start-up aspects including:

- Installation Supervision for all Electrical and Mechanical Components in the Building.
- Verifying Proper Lift Techniques per Manufacturer's Specifications.
- Full Electrical and Mechanical Commissioning of Equipment.
- Instrumentation Commissioning.
- Site Acceptance Testing
- Equipment Training

SWITCHGEAR, MOTOR CONTROL CENTERS, LOAD BREAK SWITCH, & LV MCC

The ultimate long-term performance of switchgear depends on the reliability of its insulation system and proper installation. Powell's Technician's will make sure that all your needs are met through:

- Installation Supervision of New and Retrofit Equipment.
- Post Installation Inspections: Mechanical and Electrical.
- Verification of Powell's ARC flash standards.
- Pre-commissioning and Full Commissioning of Switchgear and Motor Control Centers.
- Modification and Upgrade to Future/Spare Powell equipment section



THERMAL IMAGING/INFRARED

Through the use of a thermal imaging (infrared) scan, we locate hot spots that may indicate faults or potential issues. These images can lead us to the source of the issue before it causes a major failure in your system. We will work with you to build a comprehensive maintenance plan that suits your short-term and long-term needs or simply provide you with a thermal imaging scan of a problem area in your plant.

Here is what you can expect:

- Location of problem area (source of heat rise/ loss, leakage, inconsistency).
- Photographic comparison between conventional and thermographic images of the scanned area.
- Details of temperature patterns between hot spot and typical reference area.

ELECTRICAL PREDICTIVE MAINTENANCE

The natural deterioration of electrical equipment begins as soon as the gear is put into service. Although this deterioration is normal and expected, a well-organized and implemented Electrical Predictive Maintenance program minimizes this deterioration process which in turn reduces accidents, unplanned shut downs and lengthens the life of your gear. Powell can help develop a program that is right for your equipment and provide training to your operations team.

RELAY PROGRAMING & TESTING

The goal of protective relay testing is to maximize the capability of the protection and minimize the damage caused by a fault. A Powell Service Technician will help with this by:

- Verifying the Relay is in Accordance with the Coordination Study.
- Downloading Settings from the Relay and Providing a Copy to the Client.
- Applying Voltage or Current to All Analog Inputs.
- Verifying Correct Registration of the Relay Meter.
- Control Verification.
- Check Functional Operation of Elements Used in the Protection Scheme.
- IED/ Network Programming
- ATS Programming



CABLE BUS, BUS DUCT, & ISOPHASE ASSEMBLY

Powell is the only cable bus, bus duct, and ISO phase manufacturer that provides on-site reassembly. Unlike industry electricians, our technicians are experienced in this highly specialized installation service, resulting in: reliable project execution, warranty verification and an extended equipment life.

BREAKER SERVICING & REPAIR

PowlVac® breakers can provide an upgrade to fit your existing switchgear, removing obsolescence and adding life to your system. Upgrading your outdated equipment with PowlVac® replacement circuit breakers allows you to take advantage of the latest in vacuum interrupter technology without significantly changing the structure of your existing electrical system. Each breaker is a factory designed and tested replacement. Every component is designed for complete mechanical and electrical interchangeability with your existing circuit breaker.

At Powell, we perform all mechanical and electrical operational tests on both the circuit breaker and its operating mechanism. Models we can fix or replace: Allis Chalmers, Siemens, GE, Federal Pacific, Westinghouse, McGraw Edison.

POWER CABLE & ACCESSORIES

The objective of any diagnostic test is to identify, in a non-destructive way, a potential problem that may exist in a cable. At Powell, we can provide the following services:

- Medium to High Voltage Splicing and Termination
- AC/DC Hipot- Insulation Resistance Testing
- PF/OF Testing on Shielded Cables
- AC Resonance

AUTOMATION SERVICES

Powell offers a wide variety of advanced safety technologies and condition monitoring products and control systems.

- BriteSpot™ Thermal Monitoring
- OnBoard Racking TM (OBR / OBR II (ERS))
- PD System Monitoring
- Ecovisor Plus
- Circuit Breaker Monitor (CBM)
- Asset Management Solutions
- Power Management and Control Systems

POWER SYSTEM ENGINEERING SERVICES

Powell can support you on all your Power System Engineering needs:

- System Studies
 - Short Circuit Analysis
 - Load Flow Analysis
 - Transient Stability Analysis
 - Harmonics Analysis
 - Arc Flash Studies (AC/DC)
 - Protection Coordination Studies
- Power System Reliability Assessment
- Front-end Engineering and Design

EPIC PROJECT OFFERINGS

Our mission is to be your go-to provider for every aspect of your electrical distribution system needs. Utilizing Powell's experience in power system design, contracting, procurement, logistics, and site commissioning and start-up provides a single-source supplier partner from start to finish.

- Engineering - Front-end conceptual engineering
- Project Procurement - Secure supply chain and dedicated strategic sourcing department
- Integration - Device neutral design model for power system monitoring and control
- Construction - Removing, lifting, and setting of electrical distribution equipment and external control and power cable terminations
- and more.

MATCHING INDUSTRY STANDARDS:

NETA (International Electrical Testing Association)

IEEE (Institute of Electrical & Electronic Engineers)

IEC (International Electrotechnical Commission)

ANSI (American National Standards Institute)

NEMA (National Electric Manufacturers)

CSA (Canadian Standards Association)

UL (Underwriters Laboratories)

NICET (National Institute for Certification in Engineering Tech)



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Automation Division - Houston, TX
Electrical Division Houston Fabrication
Yard - Houston, TX
Electrical Division North Canton, OH
Electrical Division Northlake, IL
Powell Service Center - Bensalem, PA
Powell Sales / Service Center - Baton Rouge, LA
Powell Sales / Service Center - Queen Creek, AZ

Canada

Powell Canada Inc. - Acheson, Alberta
Powell Toronto Sales & Services - Toronto, Ontario
Powell Nextron Division - Calgary, Alberta
Powell Montreal Sales & Services - Montreal, Quebec

United Kingdom

Powell (UK) Ltd. - Bradford, West Yorkshire

Middle East

Powell (Middle East) B.V. Bahrain - Al Seef, Bahrain

Asia

Powell Industries Asia Pte. Ltd. - Asia, Singapore