Powell Service Division Overview

Field Service & Commissioning for the Canadian Market
WHAT WE CAN OFFER YOU
We provide extensive field service for Powell manufactured equipment, and offer comprehensive full service testing and maintenance programs for 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®.

Our team has extensive experience in the oil and gas, mining and utility markets. Some of the services we are capable of providing are:

- OEM Field Service & Repair on Powell Products.
- 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, 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.

COMMISSIONING SERVICES
Powell Technicians will verify a safe start-up of your new equipment using our industry leading electrical & mechanical knowledge. Utilizing Powell’s Technical Services for commissioning your new Powell equipment can extend the warranty on your gear.

E-HOUSE & POWER CONTROL ROOMS
As the need for power becomes greater so does our client’s needs for properly installed and commissioned E-houses & Power Control Rooms (PCR). Powell Canada’s highly trained personnel bring extensive experience to our E-House & PCR 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.

SWITCHGEAR & MOTOR CONTROL CENTERS
The ultimate long-term performance of switchgear depends on the reliability of its insulation system and proper installation. Powell Canada’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.

• Comprehensive Field Services
• Fully-equipped & Qualified Technicians
• Compliant with NETA, IEEE, ANSI, NEMA and CSA Standards
• Dedicated to Customer Service
Powell People Solve Tough Problems

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 Canada can help develop a program that is right for your equipment and provide training to your operations team.

RELAY PROGRAMMING & 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

CABLE BUS, BUS DUCT & ISOPHASE ASSEMBLY

Powell Canada 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.

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/DF Testing on Shielded Cables
- AC Resonance

ADVANCED SAFETY ADD-ONS

Powell offers a wide variety of advanced safety technologies. Our service group can provide and install the following:

- IR Windows
- BriteSpot™ Thermal Monitoring
- OnBoard Racking™ (OBR)
- Arc Flash
SAFE AND EFFICIENT

Electrical acceptance testing, maintenance testing and commissioning are essential for guaranteed safety and reliability of power and control systems. The start-up and energizing of an electrical distribution system for the first time can present unique challenges to personnel. At Powell Canada, we are committed to ensuring a safe and reliable system start-up at your critical infrastructure.

YOU CAN RELY ON US

Powell Canada, Inc. has a combination of experienced and skilled technicians, supported by first-class testing and commissioning equipment. We have the technicians, tools and equipment required to support all of your commissioning projects. At Powell, we provide a testing and commissioning service that will give your peace of mind with regards to electrical safety and reliability. We are dedicated to providing our clients with the best service possible.

Our qualified field technicians are trained on state of the art equipment to provide accurate, safe and efficient testing services in compliance with these industry standards:

- NETA (International Electrical Testing Association)
- IEEE (Institute of Electrical & Electronic Engineers)
- ANSI (American National Standards Institute)
- NEMA (National Electric Manufacturers)
- CSA (Canadian Standards Association)

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