

## WHO WE ARE

Powertech's technical specialists are world class, ensuring that your inspection, test, commissioning and start-up requirements are thoroughly met and satisfied. Powertech specialists are highly trained, reliable and responsible. So when you require autonomous individuals with experience in all industry sectors you can count on us.

## PEOPLE

To be the best at what we do, we strive to exceed our client's expectations.

Our services are of high value due to:

- **People:** Continuity, depth and quality of expertise provided by our field personnel.
- **Process:** Documenting and reporting via our highly evolved quality control systems.
- **Platform:** National network of teams and locations for rapid response and support.
- **Plant:** Extensive selection from the best brands of inspection and test equipment.



## TECHNICAL SERVICES

Powertech provides a full suite of technical services to ensure that your asset remains stable and reliable during normal and abnormal operating conditions. Some of the specialist services we offer include:

- Protection relay & scheme testing and upgrades
- Medium and low voltage switchboard testing
- Medium voltage motor testing
- High voltage substation testing
- Liquid and dry type transformer testing
- Partial discharge online and offline testing and conditional monitoring
- AC & DC pressure testing of power cables
- High and medium voltage cable testing
- Substation batteries and charger testing
- Surge arrester testing
- Aerial busbar inspection and testing
- Watt-hour and indicator meter testing and verification
- Power factor correction system testing
- Power generation online and offline testing
- Medium and low voltage circuit breaker and motor starter testing
- Rotating machines – condition monitoring and electrical testing
- Rotating machines – mechanical maintenance
- Thermographic surveys
- Earth testing and surveys
- Power station generation control upgrades



## ENGINEERING SERVICES

Our experienced engineering team covers all aspects of the secondary system for the entire power production and transmission delivery process, encompassing all areas of protection, metering, control and SCADA in new and existing sites.

- Engineering design (secondary systems)
- Power system network analysis
- Power system protection schemes
- System fault current calculations
- Protection relay co-ordination and grading studies



## COMMISSIONING SERVICES

Powertech Services specialises in all aspects of high, medium, and low voltage electrical equipment and instrumentation commissioning. Powertech is an independent and professional service provider to many major blue chip clients offering professional and confidential service. Our multi-discipline teams are structured to meet our client's specific needs and typically consist of the following roles:

- Commissioning Managers
- Commissioning Engineers
- Senior Technicians & Technicians
- Technical Writers

## MAINTENANCE SERVICES

Our aim is to provide a complete preventative maintenance service for all plant equipment. Preventative maintenance is cost effective ensuring continuity of supply without costly breakdowns. Our maintenance activities extend to:

- Testing of protection schemes to check the integrity of the system
- Testing and maintenance of switchgear
- Testing of metering schemes
- Detailed oil condition analysis
- Speed tracing of circuit breakers

## ASSET MANAGEMENT SERVICES

We provide asset management services to our clients ranging from complete packages where your assets are managed within our specialist web based asset management platform, or tailor made services to suit your requirements. With state of the art access to your intellectual property, your data remains secure while maintaining the transparency you require.

