



PRACTON

ELECTRICAL SERVICES

EC012088



/// ELECTRICAL DESIGN

- Engineering
- Manufacturing
- Installation
- Commissions
- Testing

/// MECHANICAL DESIGN

- Engineering
- Manufacturing
- Installation
- Civil
- Piping

/// VIRTUAL REALITY

- High Voltage Training
- Operations Simulator

/// AUSTRALIAN DISTRIBUTOR

- Trafindo Transformers

AUDITING | MAINTENANCE | CONSTRUCTION
ENGINEERING | INNOVATION



/// COMPANY OVERVIEW

Practon Group brings together mining industry professionals with electrical & engineering experience. We provide our clients with safe, cost effective and innovative electrical solutions for their mining, maintenance, infrastructure and project challenges.

With the recent purchase of a new modern 1600m2 office and workshop facilities in Greenfields Mandurah, adds to our capability to deliver specifically to our clients needs.

We are committed to ensuring our clients expectations are exceeded through good safety culture, strong communication, precise planning and effective execution.

By focusing on practical and inventive solutions we are always looking for better ways to provide value.

/// CORE COMPETENCIES

/// ENGINEERING

From simple capacity checks to full site-wide power studies, we can provide the engineering expertise to drive your business. As well as electrical power, we can also design and provide solutions for your control systems (PLC/SCADA) and communication challenges.

/// AUDITING

Our team is conversant with all current electrical industry acts and regulations. We can conduct a detailed audit on your electrical systems for statutory compliance, industry best practice and provide you with a comprehensive report including any non-compliance issues and cost effective solutions to ensure conformity.

/// CONSTRUCTION

The key to a successful construction project is good planning, placing an emphasis on engineering & planning prior to undertaking works to solve issues before they become major problems. Our workshop team provides the in-house ability to design and build custom electrical equipment and panels to reduce cost and lead time.

/// MAINTENANCE

Whether large or small, your infrastructure investments need to be maintained to ensure reliability and high up-time. We specialise in routine proactive maintenance work and can help you undertake the works as well as plan and schedule them. In addition to our onsite personnel, our workshop team has in-house capability to refurbish all electrical equipment and panels.

/// INNOVATION

We believe continuous improvement and innovation is key to our success and yours, and that is why we are continually looking for new opportunities to increase efficiency and reduce costs. By challenging the status quo, we develop practical solutions to your power problems.



/// MANAGEMENT TEAM

/// MARK MARTIN GENERAL MANAGER

Mark has a strong background in electrical design and problem solving. He has been a qualified electrical / instrumentation tradesperson for over 25 years and worked in a variety of roles from electrical tradesperson right through to site resident manager.

With a can-do attitude and fierce determination, he is a driving force on any project. He is a skilled practitioner of transformational change and is always looking for ways to improve and evolve your business.

/// BRAD SLATER OPERATIONS MANAGER

Brad has over 25 years' experience in the electrical industry in mining operations across Australia. His roles have included electrical tradesperson, electrical superintendent, maintenance manager and project manager.

His broad knowledge base extends to all facets of the electrical field: both surface and underground mining operations, from green fields construction right through to operation.

His fastidious attention to detail and drive to complete all projects to the highest standard will achieve the best possible outcome for your business.

/// JOE MAYCOCK WORKSHOP SUPERVISOR

Joe brings several qualities to the workshop facility including focus in workplace health, safety, and risk management, ensuring adherence to safety protocols and hazard mitigation. His hands-on team cooperation skills and leadership qualities foster a collaborative and supportive environment.

Coupled with his attention to detail, to ensure company and customer expectations are met, maintaining high quality standards.

/// ADAM DARDHA BUSINESS DEVELOPMENT MANAGER

Adam brings 27 years of experience in the electrical industry, which for the past two decades has been dedicated to the Mining sector, specialising in various facets of operations, such as Processing, Underground operations and Port import/Export facilities.

Adam's mission revolves around enhancing safety standards within the electrical industry through the strategic application of innovation and technology, along with fostering great working relationships with industry groups.

/// PREVIOUS PROJECTS



/// WODGINA – CARE AND MAINTENANCE

Practon Group performed a detailed electrical audit across Global Advanced Metal's Wodgina site which uncovered some previously unseen issues. We then undertook a remediation program to ensure all areas of the Wodgina site met the statutory requirements, as well as industry best standard.

We revitalised the maintenance department by reviewing all maintenance tasks in the Pronto system and applying a proactive maintenance methodology across the site.

Following this success, we completed further infrastructure projects including a new power line installation and essential services upgrade to the village.

/// WILUNA – EXPLORATION DRILLING AND TEMPORARY POWER STATION

Blackham Resources engaged Practon Group to reinstate the underground high voltage infrastructure. This was required to enable the exploration drilling program of Wiluna Gold Mine to prove the quality of the resource. The project necessitated the testing and repair of the high voltage distribution network, and restoration and repair of the diesel fired high voltage power station.

The underground distribution network was reinstated and commissioned including the remote bore fields. Practon Group operated and maintained the infrastructure throughout the project to deliver the infrastructure requirements for successful completion of the exploration drilling program. This project spanned multiple months and was completed without incident in a safe and timely manner.

To feed the underground operation and the process plant refurbishment works until the new power station was built, we completed installation, testing and commissioning of the temporary power station project. The work included two separate installations of diesel fired generators and step-up high voltage transformers. This installation back fed the site infrastructure to ensure the delivery of power and water to critical areas of the operation. Practon Group designed, installed, commissioned, maintained and operated the system.

/// PREVIOUS PROJECTS



/// WILUNA – GOLD PROCESS PLANT REFURBISHMENT

Practon Group successfully tendered and won the electrical and instrumentation (E&I) contract for the Wiluna Gold Processing Plant. Under tight timelines we mobilised a team of over 40 personnel to complete the variety of works required to bring the run down plant back to life. Significant works included:

- The disconnection & removal of an MCC to make way for the installation and reconnection of a new MCC for the crushing and screening circuit.
- Trenching, conduit and cable installation, termination and testing of multiple HV cable runs.
- Installation at heights of new cable tray and cabling for all equipment and sensors in the leaching area.
- Implementation of Macroview control system to coordinate the entire plant process including new user interfaces, PLCs and servers. As well as, running and termination of new high bandwidth fibre optic communication network.

/// WILUNA – ANCILLARY INFRASTRUCTURE WORKS

Practon Group completed installation, testing and commissioning of multiple ancillary projects at Wiluna Gold Mine for Blackham Resources.

These included:

- The Village high voltage infrastructure, comprising of refurbishment of high voltage transformers and replacement of main distribution centres.
- Complete upgrade of the remote bore fields. This work was critical for operation of the mine and process plant, and was completed without any major disruptions. The work included switchboard design and manufacture, site installation, testing and commissioning. Additionally, we also completed the supply and installation of the bore headworks, valving and pumps for the project.

Upgrades were completed to the Happy Jack primary underground ventilation electrical infrastructure, including replacement of the 1MW high voltage transformer and cabling, refurbishment of the primary starter panel and replacement of all cabling and fixings.



/// PREVIOUS PROJECTS



/// WORKSHOP – ELECTRICAL PANELS & SUBSTATIONS

Our new Peel based workshop is equipped for all types of in-house manufacturing and fabrication from new panel builds through to motor refurbishments. With over 1600m2 of floor space we are ready to deliver any project big or small.

A great example of this in-house capability is the seven underground substations we refurbished for Blackham Resources to service their Bulletin underground mine. This project consisted of disconnection and removal of the substations from their underground locations, while minimising the impact on operations. This was achieved by a strategic and staged approach to the substation refurbishment.

Each substation was completely stripped down, base frames sand blasted and hot dipped galvanised. Panels were similarly stripped, sand blasted, repaired where required and powder coated. Finally, the switchgear was updated, rewired and then tested before being sent back to site to be reconnected and put into service.

/// INNOVATION – VIRTUAL REALITY TRAINING

Practon Group is always looking for opportunities to solve old problems with modern technology. One of our current new developments is a virtual reality training environment to safely train electricians on how to and how not to use HV switches.

Providing training in a VR environment has several advantages, such as a large variety of training scenarios, ability to 'learn by failing', no operational downtime and reduced training time & cost.



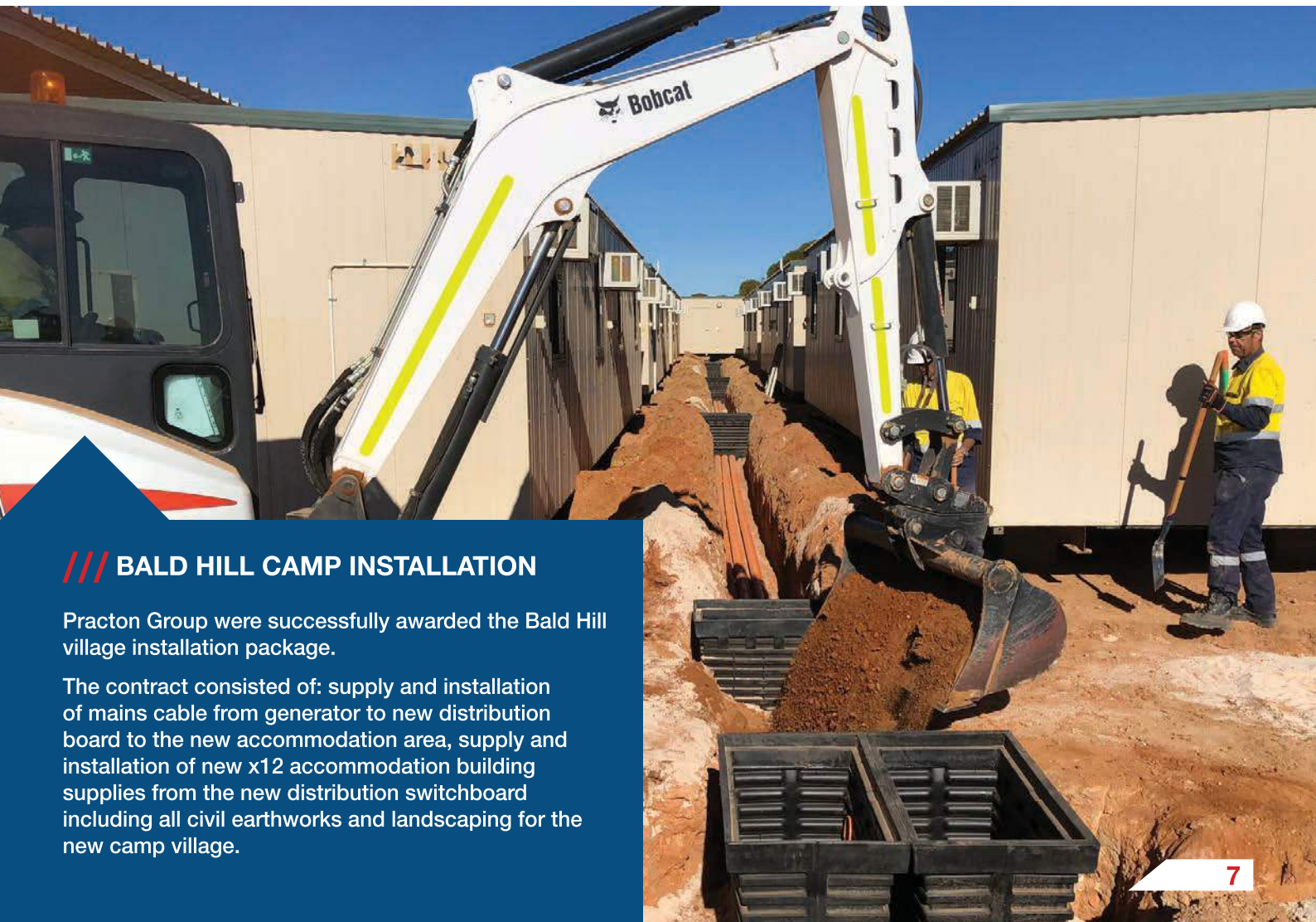
/// PREVIOUS PROJECTS



/// RENEWABLE ENERGY SYSTEMS - SOLAR ARRAY & TELEMETRY PACKAGE

Practon Group Have recently been awarded the supply and installation of a remote solar powered telemetry system for the Rio Tinto Yandi mine site.

The contract consisted of in-house design and manufacture of telemetry system, PLC and solar panel modules complete with battery storage units packaged as two remote solar skids to control an in line flow metre at tailings dam WFC5 for the mine site.



/// BALD HILL CAMP INSTALLATION

Practon Group were successfully awarded the Bald Hill village installation package.

The contract consisted of: supply and installation of mains cable from generator to new distribution board to the new accommodation area, supply and installation of new x12 accommodation building supplies from the new distribution switchboard including all civil earthworks and landscaping for the new camp village.

/// GLOBAL PRESENCE

AUSTRALIAN SOLE DISTRIBUTOR:

Partnering with one of Indonesia's largest manufacturers of distribution and power transformers along with all associated VT's & CT's hardware.

- Very competitive industry pricing
- Low lead times with very low transport times
- Custom builds available to suit company requirements

Trafindo's transformers are world renowned and have been supporting industry for the past 43 years.



/// 2MVA AS61439 TYPE TESTED COMPACT SUBSTATION

Complementing Practon Electrical Services' very own designed and manufactured underground substation.

- AS61439 Compliant
- Type Tested 1kVA Distribution Board
- ARC Flash Protection
- HMI Controlled
- Full HV & LV Remote Switching.



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***PRACTICAL SOLUTIONS
FOR YOUR POWER PROBLEMS***