



CAPABILITY STATEMENT

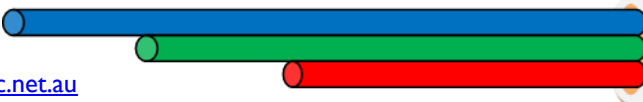
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Document Details

Revision History	Description	Author	Approved	Date
1	Revised from MKT-CS-05181	L McDonald	A McDonald	14/11/18

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I COMPANY PROFILE

I.1 OUR OBJECTIVE

To provide a comprehensive Professional Engineering consultancy service where our clients receive a practical and effective solution to their problems.

I.2 OUR VALUES

This document includes:

-  Safety
-  Innovation
-  Quality
-  Diversity

I.3 ABOUT US

ALLMAC Electrical Engineers Pty Ltd was established in early 2009. We aim to become a premier Electrical Engineering consultant for all regions of Australia.

We are committed to ensuring confidence in professional services by having Engineers with RPEQ registration. This is a legislated requirement for Professional Engineers practicing in Queensland. In addition, all employees are encouraged to be involved in a continual professional development process.

ALLMAC is dedicated to providing engineering services of a consistently high standard whilst embracing the opportunity for improvement to remain a leader in their field.

We always operate using the most recent and current standards to ensure that safety remains a priority and quality is always maintained.

We are based in Mackay but are flexible to travel to anywhere our services are required.

ALLMAC Electrical Engineers Pty Ltd strives to offer the best service to our clients and believe that we are able to connect the gap between theory and practice in all applications.

Our staff are dedicated to ensure that any product of ALLMAC is cost effective, meets the standards and is of the highest quality. Clients not only receive a professional product from ALLMAC but a product that is tailored personally to suit them.

ALLMAC Electrical Engineers has received PQC certification with the Queensland Government.

ALLMAC Electrical Engineers is able to take on projects of various sizes and complexity. We have access to additional resources and specialist skills to complement our capabilities and skills.




Lee McDonald
 Managing Director
 ALLMAC Electrical Engineers Pty Ltd

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2 STAFF

Employees of ALLMAC Electrical Engineers Pty Ltd have been involved in the Electrical Engineering field for over 28 years, with combined engineering experience of over 46 years.

2.1 Lee McDonald – BENG, MBA, RPEQ
























-  Bachelor of Engineering (Electrical Systems)
-  Master Business Administration (Technology Management)
-  25 Years postgraduate experience – Mining and Utilities Previous roles include but not limited to:
 - Relief Principal Electrical Engineering – BMA IAM
 - Manager Planning Customer Connection – Central West NSW.
 - Asset Maintenance Development Engineer.
 - Senior Engineer.
 - Network Engineer.

2.2 Andrea McDonald – BENG

-  Bachelor of Engineering (Electrical/Electronic).
-  20 years postgraduate experience – Mining and Utilities. Previous roles include but not limited to:
 - Senior Project Manager for BMC South Walker Mine for projects up to \$5Million.
 - Project Engineer.
 - Network and Retail Pricing Engineer.
 - Operations Engineer.
 - Reliability Engineer.

2.3 KNOWLEDGE



All employees have come from a very diverse background and bring extensive knowledge to the ALLMAC in the following areas:

-  Site Compliance Service (Arc Flash, Protection Settings & Single Line Diagram Maintenance).
-  HV and LV System Design. (AS2067, AS3000)
-  Protection Coordination Studies and Setting Advice including ITP Development.
-  Arc Flash Modelling and Studies, presentations/ training.
-  Load Flow Analysis.
-  Earth Grid Design.
-  Auditing (Arc Flash, Installation, Documentation etc).
-  Earth Leakage Compliance Audits.
-  Quality Management System Documentation.
-  Revising and Editing Engineering Documentation.
-  Feasibility Studies.
-  Overhead Line Design.
-  URD (Urban Residential Development) Reticulation Design.
-  Building Services Design (Lighting, Power, Data and associated services).
-  Project Management.
-  Reliability Analysis and Improvement.
-  Data Management and Analysis.
-  Financial Modelling and Recommendations including Cost Tracking and Management.
-  Tender Documentation, Scope of Works, Specifications, Evaluation.
-  Connection Agreements.
-  Cable sizing to AS3008.x.
-  Energy Auditing. Street Lighting Design.
-  AutoCAD Electrical Drafting.



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3 PROFESSIONALISM




3.1 REGISTRATION

-  RPEQ registration – Lee McDonald No 8263.
-  Qbuild Registration – 847816.






















3.2 INSURANCE

-  Professional Indemnity Insurance - \$5 Million.
-  Public Liability - \$20 Million.

4 PUBLICATIONS

-  IDC Arc Flash Forum Melbourne – 14 & 15th April 2010 – “Practical Implications of Completing an Arc Flash Review”
-  SIRF Roundtable – Gold Coast 2-3 August 2010 “Arc Flash Review Process – Practical Steps And Implications”
-  MACHINES 2012 – Arc Flash and Machines Presentation.

5 OUR KEY ACCOMPLISHMENTS

-  Braeside and Riverside Pump Stations (BMC) Arc Flash Studies
-  Maintenance Plan for Braeside Pump Station.
-  Solar Installation RPEQ testing and certification.
-  Relay and battery bank testing for TCU (rail)
-  Various lighting and power designs for industrial developments.
-  Support for Principal Electrical Engineer position for BMA IAM – Dec 2017 – May 2018.
-  Lightning design for Broadmeadow Ventilation borehole.
-  Switchboard and HV panel arc flash and venting studies.
-  Arc Flash and Protection Coordination for Broadmeadow Ventilation shaft substation.
-  Electrical design and certification for various residential and commercial buildings.
-  Preliminary assistance with metering application for AEMO approval.
-  Specification for CT Metering Installations associated with commercial and industrial developments
-  Fault investigation – Aurizon HV supply to rail yard and protection analysis.
-  Callide B & C Power Stations – Electrical Engineering/ Operations Engineer 2014-2016
 - Lighting Upgrades. (LED)
 - Transformer Maintenance.
 - Switchboard Upgrades.
 - Coordination of hazardous area works.
 - Implementation of reliability improvement initiatives.
 - Cathodic Protection System Upgrade.
-  Melbourne Water
 - Arc Flash Analysis for Eastern Treatment Plant.
 - Arc Flash Analysis for Western Treatment Plant.
 - Arc Flash Analysis for Eight Pump Stations.
 - Update for proposed 160S Switching/ sub-station upgrade (Downer).
-  Documentation for Induction Hardening Equipment Mine Compliance.
-  Earth Grid Designs, Gold Coast Airport, Inpex, Moranbah North, Aggreko etc.
-  Arc Flash and Arc Flash Venting for various mining applications.
-  Arc Flash Analysis – Defence Australia.
-  Arc Flash Analysis for various sites for Aggreko.
-  Electrical Design gas water treatment skid.

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- Overhead line design, Moranbah North Mine, Mackay Airport.
- Fibre Optic Overhead and Underground Designs.
- Electrical Design for various developments, Rimex, IMES, Andergrove Vet Clinic, Uniting church Hall (Mackay) and St Vincent De Paul.
- Arc Flash Analysis for Collinsville Mine.
- Arc Flash Analysis for Collinsville Mine De-Bottlenecking Project.
- Audit and Review of Collinsville Mine Electrical Equipment with respect to Lifecycle Management.
- Protection Setting for Temporary Generation – Inpex Darwin (Laing O'Rourke)
- Protection Settings for 22/6.6kV transformer and associated equipment for Inpex construction site.
- Earthing Design and Analysis for Inpex Temporary Generation.
- Electrical Design for Housing Units for Tariff 33 Installations.
- Moranbah Camp Electrical Analysis, Audit and documentation.
- Audit and Investigation of switchboards at Dysart to manage and prevent Water Ingress.
- Electrical Design and Scope for Dawson Mine CHPP Store and Workshop Upgrade.
- Design and documentation of proposed 6.6kV system upgrade to 22kV at Dawson Mine CHPP Area.
- Electrical Design for Dawson Mine CHPP Laboratory. (Lighting, Power and Data).
- Protection Coordination for University of Queensland Oral Health Centre including directional overcurrent and differential protection.
- Electrical Design for Torres Strait Islands Desalination Plants.
- Dysart State High School – Air Conditioning Upgrade – Engineering and Electrical Support.
- Middlemount Development Electrical Design and Documentation (24 units).
- Updating and Redrafting Electrical Drawings for a Central Queensland Coal Mine.
- Earthing Design for Moranbah North Coal Mine.
- Arc Flash Analysis for G&S Engineering Workshop and Scope for Switchboard Upgrade.
- Maintenance Planning for the 4 Year Overhaul at Kogan Creek Power Station.
- Project Management and Technical Support during the 4 Year Overhaul at Kogan Creek Power Station
- On site engineering support at Kogan Creek Power Station – October 2011 to April 2012.
- Ergon Energy – Provision of engineering services for Inverter Energy Systems (IES), May 2011- December 2012.
- Arc Flash Analysis – Bucyrus (Cat) Australia for Collinsville Mine Dragline 02.
- Arc Flash Implementation Project for Capcoal.
- Aggreko – Arc Flash for Kestrel Mine Dewatering Power Station. Earthing Design – Moranbah North Mine New 2MVA Substation. Arc Flash Protection Upgrades – Cook Colliery.
- Electrical Drafting for various clients.
- Hay Point Coal Terminal – Implementation of Remote Racking Units. Protection Audit- Collinsville Mine.
- 33kV Circuit Breaker Replacement Review – Collinsville Mine. Arc Flash Analysis Dragline 22 Saraji Mine (GE Electrical). Electrical Design for Uniting Church Hall extensions.
- Earthing review for ABC Heavy Engineering – Mackay.
- Remote racking unit specification and management for Hay Point Coal Terminal. Earth Leakage Compliance Audit – Callide Mine.
- Engineering support for local electrical/ mechanical engineering business.
- Electrical design for community title development in Warwick.
- Site Support BMA Saraji Mine.
 - 66kV Substation Preliminary Design.
 - Transportable Substation Upgrade Specification.
 - Transportable Substation protection upgrades (HPB Relay).
 - Earth Continuity Review.

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- Outage Management Process Documentation.
- Dragline 13 Arc Flash Review
- Protection and Arc Flash Study for Minerva Mine.
- Protection and Arc Flash Study for Jellinbah Mine.
- Protection and Arc Flash study for Jellinbah Mine CHPP.
- Preliminary design for Train Load Out – for Group Engineering at Saraji Mine.
- Earthing Design – Saraji Mine Train Load Out (Group Engineering).
- Earthing Design – Sandvik lot in Mackay Industrial Area (Group Engineering).
- Technical and drafting assistance for Group Engineering.
- Callide Mine Dragline Relocation Electrical Investigation.
- Drafting for Electrical Switchboards.
- Preliminary Design for Water Treatment Plant Upgrade (HV and Substations).
- Quality Assurance System and accreditation approval documentation for companies.

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