

# DCS Australia Capability Statement



DCS provides high quality, customised services in general electrical engineering, control system/automation engineering and on-site maintenance support services, specialising in the mining industry (Draglines and CHPP).

## **Our Comprehensive Services Offering includes:**

Electrical Engineering and Maintenance Support Services, both off-site and on-site

- Electrical Troubleshooting, Repairs and Maintenance
- Project Management and Supervision Services, both off-site and on-site
- Design, Supply and Installation of Large Motor Control Centres and Switchrooms (LV and MV)
- Design, Supply and Installation of Miscellaneous Electrical Systems - e.g. Auto Lube Panels, light vehicle car wash.
- Design, Supply and Installation of transportable switchrooms complete with Motor Control Centres (415V or 690V)
- Design, Supply and Installation of PLC Control Systems (Allen-Bradley, GE Fanuc, Modicon, Siemens and others)
- Design, Supply and Installation of SCADA Systems (CitectSCADA and others)
- PLC Programming and Modifications
- SCADA Programming and Modifications, including version upgrades
- Electrical Drafting and Drawings
- Power System, Load Flow, Protection & Arc Flash Studies
- Electrical System Feasibility and Selection Studies
- Electrical and Control System Commissioning
- Design, Supply and Installation of DC Drive Systems for Generator and Motor Field Exciter applications



- Dragline Electrical Tune-ups, Audits and Investigations
- Dragline Performance Upgrades
- Dragline DC drive upgrades (6RA80, low cost, reuse of isolation transformers and cabinets)
- Dragline Data Acquisition, Recordings and XY Plots
- Dragline Boom and Rope (Tightline) Protection
- Dragline Shutdowns and Start-ups
- Dragline Boom Lowering/Raising
- Dragline Dig Rate Optimisation (Electrical and Control)
- Industry leading Dragline Power Factor/Voltage Regulation Optimisation to maximise trailing cable length
- CHPP Control Loop Optimisation
- CHPP Control System Upgrades (PLC and SCADA)
- CHPP Alarm System Optimisation (less than 1 alarm every 10 minutes for large processing plants)
- Train Loadout Automation Upgrades – radar solutions
- Dragline/CHPP/TLO Control System 24/7 Support
- Design, Supply, Installation and Integration of AC Variable Speed Drives
- Industrial Network Communications Integration of Third Party Electrical Devices with PLC and SCADA systems (Ethernet/IP, DeviceNet, Modbus, Profibus and others)
- Design, Supply and Installation of Control System Change Management Software (MDT AutoSave)
- Safety & QA Officer Services, Audits & Documentation
- HAZOP, HAZID and Risk Assessment Facilitation
- Software Development & Systems Integration
- Dragline Electrical Systems Training Courses
- Supply of Parts and Equipment
- AccuWeigh™ Production Monitoring System with bucket/payload weighing
- Sentinel™ Historian & Performance Reporting System – Dragline performance and maintenance data in a daily report. Identify, plan and rectify issues prior to breakdowns. Identify mechanical issues before they cause electrical failures.

- AccuPlot™ Software

Contact us:

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