



NEPEAN Power is a well-established supplier of electrical solutions with facilities in Newcastle, Brisbane and Mackay. We provide custom-built electrical equipment, electrical and electronic products, and specialist engineering services to the resources, energy and heavy industry sectors.

ENGINEERING SERVICES

- Design, manufacture and refurbishment of explosion protected electrical equipment
- Hazardous area classification, design and installation auditing for explosive gas and dust atmospheres
- Onsite periodic internal and external inspection of explosion protected electrical equipment
- Site installation, maintenance and commissioning of plant and infrastructure
- Design, development and maintenance of process control systems (PLC /SCADA)
- Risk management services incorporating, workplace risk assessment and controls (WRAC), hazard and operability studies (HAZOP), failure modes and effects analysis (FMEA) and functional safety techniques.

ACCREDITATIONS AND LICENCES

- ISO 9001:2008 Quality Management Systems (Certificate No. QEC7167)
- Manufacture explosion protected products under the IECEx and ANZEx certification schemes (Reference No. AU/SIM/QAR07.0005/05)
- Nationally recognised service facility (MP87.2:2007) for overhaul and repair of explosion protected electrical equipment
- Accredited service facility (AS/NZS 3800:2012) for the repair and overhaul of electrical equipment for explosive atmospheres (Certificate No. SMKE20131)
- Accredited Hazardous Area Electrical Auditor (Queensland Government's Electrical Safety Office (# 02/0169)
- AS/NZS 3800 Competent Persons (Overhaul and Repair)

- AS4761 EEHA Competent Persons (Installation and Maintenance)
- 'TUV Reinland' Certified Functional Safety Professionals.

PAST PROJECTS

- Turnkey packages for gas processing plant (Group I and group II)
- Installation auditing – explosive gas and dust atmospheres
- Design and independent design review of explosion protected electrical installations and equipment
- Dossier development compilation and auditing
- Intrinsically Safe (I.S) entity parameter verification
- Hazardous area classifications – explosive gas and dust atmospheres
- Hazard and risk analysis incl. HAZOP, FMEA, WRAC, Fault Tree
- Development of safety requirement specifications, validation of safety related systems
- Development of hazardous area safe systems of work (i.e. management operating systems, procedures and trigger action response plans (TARPs)
- Experience in various industries, examples include – gas powered generation plants, materials handling facilities, gas flaring facilities, gas conditioning plants, gas analyser houses, gas bottle storage facilities, combustible and flammable liquid storage facilities, water treatment plants, Type B gas appliances.

Innovation . Dedication . Specialisation