

Present Position and Employer

- Owner/Operator . EPEE Consulting Pty Ltd www.epeeconsulting.net

Years Experience

- 30 years in all . 20 years experience with Hazardous Locations equipment (17 as an engineer)

Contact Details

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Qualifications and Certificates

- Bachelor of Engineering (Electrical and Computer Eng) QUT; 1992
- Associate Diploma of Electrical Engineering USQ (formerly DDIAE); 1986
- AS/NZS 4761.1 EEHA Competencies: 010, 012, 107, 214, 215, 408, 407, 409, 410, 610, 705, 706, 707
- ESO (Qld) Accredited Hazardous Areas Auditor (No. 02/0093) Category 3: Zones 0, 1, 2, 20, 21, 22
- Queensland BLUE CARD holder (construction industries)
- Current Inductions: SANTOS and ARROW
- Quality System Auditor (training via NATA and SAI Global)

Professional Societies

- Past Member . Engineers Australia
- Member - Standards Australia . (EL-014; EL-023 & MS-011)
- Member - Metrology Society of Australia
- Past Member - International Electro-technical Commission (IEC)

Skills

- Lead teams of engineers and technicians on site to meet project objectives
- Design, Inspect and Remediate Electrical Equipment in Hazardous Areas (EEHA) installations,
- Hazardous Area Classification (HAC) studies and remediation for gas, vapour and dust hazards,
- Compile Hazardous Area Verification Dossiers (HAVD),
- Consult with clients and verify new and modified EEHA designs and Hazardous Area Classifications
- Perform conformity assessments on non-AUS Ex / ANZEx certified product to Australian standards and publish Conformity Assessments,
- Compile inter-comparisons between foreign and national standards on a clause by clause basis,
- Investigations into failures of HV and MV electrical equipment including of mine power systems, cabling and protection relays (U/G and surface),
- Previous team member of HAZOP and Risk Analysis teams,
- AS 4114 spray paint booth installation and design inspections and remediation,
- AS 1940 assessment of combustible and flammable liquid storage and remediation,
- AS 4289 assessment of acetylene and oxygen storage and installations and remediation,
- AS 4332 assessment of gas cylinder storage facilities and remediation,
- AS 2022 assessment of anhydrous ammonia storage facilities (water treatment and nitrates plant),
- AS 2927 assessment of liquefied chlorine gas storage and installation (water treatment),
- Training Material Author, Presenter and Assessor for MOXI (http://www.moxi.com.au/Home/Trainers_assessros.htm).

Experience

- 2009: SE Power/Energen/Xstrata - EEHA Consultant . HA Classifications, Inspections and Design Review
- 2009: Orana Engineering/Xstrata Coal Seam Methane Extraction . EEHA Consulting - HA Classifications, Inspections and Design Review
- 2009: Arrow Energy/Delco EEHA Auditor/Inspector and QA/QC documentation coordinator
- 2009: Santos/Enerflex Fairview Gas Compressor Stations . EEHA Team Lead and QA/QC documentation coordinator
- 2008: BBSAA . Conformity Assessments
- 2008: Santos/Enerflex Fairview (W. Qld) Gas Compressor Stations EEHA Inspection and QA/QC documentation coordinator
- 2008; Revision of training material for MOXI (www.moxi.com.au)
- 2008; Hazardous area classification reviews of marine tankers . Coogee Resources
- 2008; Hazardous area classification of methane drainage systems in landfills . various clients (inc Mono Pumps)
- 2008; Conformity assessments of foreign certified EEHA . various clients
- 2008; Various hazardous area classifications for Aquatec Maxcon . for water recycling plants
- 2008; Hazardous area classification of plant at NYRSTAR Zinc Refinery, Hobart
- 2008;.Hazardous area classification of ammoniation plant for BCAA at Bribie Island

- 2008; Various EEHA installation inspections for Fuel Flow in South East Queensland (Service Station Installations)
- 2007; Presentation of EEHA courses for MOXI (www.moxi.com.au)
- 2007; Hazardous area classification of methane releases from Brisbane City Council Landfill Site . Nudgee Beach
- 2007; Hazardous area classification and equipment design advice for ammoniation plant in North Brisbane . Ninness Consulting
- 2007; Various conformity assessments of foreign certified explosion protected apparatus . HAZEX Pty Ltd
- 2007; Yabulu Nickel Refinery, Townsville . EEHA Audit and remediation & redesign of aspects of the upgraded installation . HATCH Engineering
- 2007; Tarong Power Station, Nanango . HAC study and EEHA inspection of generator hydrogen system,
- 2007; Kogan Creek Power Station, Queensland . EEHA inspection and report on Coal Handling Plant,
- 2007; QNP Moura QLD . Conformity Assessment of foreign certified EEHA to Australian standards.
- 2006; QNP Moura QLD . EEHA reinspection of QNP-Nobel ammonium nitrate plant,
- 2006; Brisbane Water - Mt Crosby & North Pine, Brisbane . HAC study of water treatment plants,
- 2006; CCI Newcastle NSW . HAC and EEHA inspection of coal analysis laboratory,
- 2006; Goodman Fielder Waygunyah NSW . HAC study and EEHA inspection of oats processing plant,
- 2005/2006; Tarong Power Station, Nanango QLD . HAC study and EEHA inspection of flammable store, gas turbine and related fuel systems,
- 2005; Tarong Power Station, Nanango QLD . HAC study and EEHA inspection of coal handling and fuel oil facilities at Tarong Power Station,
- 2005; QNP Moura QLD . EEHA reinspection of ammonium nitrate plant,
- 2005; Tarong Power Station, Nanango QLD . HAC study and EEHA inspection of hydrogen generation system,
- 2005; Iluka Geraldton WA . HAC study and EEHA inspection of Narngulu synthetic rutile plant,
- 2005; Laminex Perth WA . Final HAC and EEHA inspection of MDF Plant (combustible dusts),
- 2004; Port Headland/Telfer WA . EEHA inspections of gas power station, piping & compressor stations,
- 2004; Laminex Perth, WA . Initial HAC study and EEHA inspection of MDF Plant (combustible dusts),
- 1997; Taupo, New Zealand - Geothermal Power Station EEHA Inspection and Conformity Assessments,
- 1995; Tahmoor Colliery, Tahmoor, NSW . Inspection of Underground Coal Mines Ex v control room,
- 1994; Joy Manufacturing Moss Vale, NSW . Assist with the development of an Ex v underground control room,
- 1993; Ampol Refinery, Fishermanø Island, Brisbane . EEHA inspection of analyser houses,
- 1992; Nowra, NSW, Australia . EEHA inspection of Ex v control rooms in ethanol plant.

Employment History

- EPEE Consulting . Sole Trader (www.epeeconsulting.net)
- SAI Global Pty Ltd . Quality Systems and **EEHA Overhaul and Repair Workshop Auditor**
- Ninness Consulting Pty Ltd; August 2007 to September 2007 . **EEHA and HAC projects**
- HAZEX Pty Ltd; May 2006 to April 2007 (working for HATCH) . **EEHA inspections and rectifications**
- INETE Pty Ltd; April; 2007 to September 2007 . dragline overhaul and repair & **EEHA and HAC projects**
- PCT Engineers Pty Ltd, Brisbane; Jun 2004 to April 2007 . **EEHA inspections, design & HAC projects**
- VMS International; RAAF Amberley ; Feb 2002 . Jun 2004 . Lab Manager . **Instrument Repair/Calibration**
- Department of Defence (Civilian) - RAAF (DGTA-NDTSL); RAAF Amberley; May 2000 . Feb 2002 . **NDT Eng.**
- Electrical Testing and Certification Centre (SIMTARS); Feb 1990 . May 2000 . **EEHA Assess. & Certification**
- Department of Defence . Army (RAEME); Aug 81 . Feb 1990 . **Instrument/Calibration Technician**

Other Training

- Lead External Auditor . SAI Global (ISO 9001)
- Dale Carnegie Leadership Training for Managers
- National Restricted Electricianø License (NREL . TAFE)
- Level 2 Non-destructive testing (Radiography, Ultrasonics, Eddy Current only)
- EMC Pre-compliance Testing - AEDC
- Internal Laboratory Auditor & Quality Management in the Laboratory . NATA (ISO 17025)
- Radio Tradesman - Commonwealth Trades (includes RAAF calibration technician training)

Notifications

- Current Standards Australia committee member (MS-011, EL-014 and EL-023),
- Previously NATA signatory at VMS International Pty Ltd (1.41 Pressure and Vacuum),
- Previously NATA signatory at SIMTARS (3.80 . Electrical Testing & 3.90 - Hazardous Location Testing, also signatory for other various tests and Inspection),
- Former IEC committee member (Technical Subcommittees 31J and 31H).

Papers Presented

- %EEHA Installations and the Queensland Electrical Safety Act and Regulation+ . IDC Conference, Townsville, September 2008
- %ntroduction to Hazardous Location Protection Techniques . Part 1: Gases and Vapours+ - Institution of Engineers Journal . May 2005,

- %EHA . Changes in the Air+. published in the Journal of the National Safety Council of Australia, Mar 2005,
- %Uncertainty & Measurement for NDT Test Equipment+(NDT Conference . RAAF Amberley, Nov 2001).
- %Intrinsic Safety and Non-destructive Test Equipment+(NDT Conference . RAAF Amberley, Nov 2000),
- "Intrinsic Safety in the Offshore Petroleum Industry"(Offshore Petroleum Communications conference - Perth, 15,16 Jul 1998)
- "Intrinsic Safety Considerations in Communication Equipment for use in Underground Coal Mines"(Underground Mine Communications conference - Darling Harbour, Sydney:11,12 Dec 1997),

Research Projects

- Characterisation testing of IEC breathing and draining device test apparatus (now in AS/NZS 60079.1),
- Gained ACARP research grant for High Current I.S. Spark Test Apparatus,
- Temperature rise testing of dust laden junction boxes at various dust thicknesses,
- Assisted research engineers with ACARP Arc Fault Containment and Mine Power Supply Transient research.