

Air & Gas Industries

Capability Statement



Air & Gas Industries

A Unit of Air & Gas Holdings Pty Ltd

ACN: 009 955 766 ABN: 48 009 955 766

19 Industrial Avenue Wacol Qld 4076. PO Box 282 Carole Park Qld 4300, Australia

Ph: (07) 3271 5899 Fax: (07) 3271 5726

Email: mail@airgas.com.au Website: www.airgas.com.au

CONTENTS

INTRODUCTION

ORGANISATION & CONTACTS

PRODUCTS AND SERVICES

QUALITY ASSURANCE

SAFETY

APPROVALS

PROFESSIONAL & INDUSTRY PARTICIPATION

REFERENCE MATERIALS

PROJECTS SUMMARY

INTRODUCTION

This statement outlines the services, personnel and capabilities of Air & Gas Industries a company based in Brisbane, Queensland and offering its services throughout Australia and the Asia Pacific Region.

Air & Gas Industries, a Unit of Air and Gas Holdings Pty Ltd, was established in 1974 to provide technical services to the Gas Industry and to users of other gaseous products. It has established a unique position in the market place providing service in seven main areas:- Contracting, Liquefied Gas Engineering (LPG and LNG), Industrial Heating, Fabricated Products, Service and Maintenance, Inspection and Testing and Merchandising.

CORPORATE OBJECTIVES

Formed in 1974 the Company was set up with the following objectives;

To provide a complete technical based service to the Gas Industry and users of gaseous fuels.

To use the skills so developed to undertake contract work in related industries eg. petrochemical and power generation.

To undertake specialised piping installations and fabrications particularly those that enable us to combine metallurgical experience with our fabrication abilities.

To merchandise a range of specialised products relating to the above industries. These products to be a mix of our own manufacture and those available from other manufacturers.

VISION

**TO BE THE LEADING PROVIDER OF
ENGINEERING SERVICES TO THE
GAS INDUSTRY AND TO BE
RECOGNISED FOR BOTH QUALITY
AND EXCELLENCE OF SERVICE**

MISSION STATEMENT

**TO PROVIDE 'FIRST TIME RIGHT'
TECHNICAL SERVICE TO CUSTOMERS,
DELIVERED ON TIME AND ACHIEVED BY
EMPLOYING COMMITTED, SATISFIED
STAFF OF THE HIGHEST QUALITY.
DEDICATED TO CUSTOMER SATISFACTION
AND THE MAINTENANCE OF ABSOLUTE
SAFETY STANDARDS.**

CONTACT US

HEAD OFFICE

AIR & GAS INDUSTRIES

19 Industrial Avenue, WACOL QLD 4076
AUSTRALIA

Telephone: (07) 3271-5899

Facsimile: (07) 3271-5726

Postal Address:

PO Box 282, CAROLE PARK QLD 4300

Email: mail@airgas.com.au

Website: www.airgas.com.au

ANHYDROUS AMMONIA

Air and Gas Industries has developed considerable expertise both in the design and the construction of storage and handling facilities for Anhydrous Ammonia.

This experience includes:

- Bulk storage and handling facilities
- Road/rail tanker loading and unloading systems
- Nurse tanks
- Road tankers and trailers
- Metering stations
- Fire protection systems
- PLC-based terminal management systems
- SCADA systems
- Equipment, valves and fittings

In any of the above areas we are able to provide part or all of the following services:

- Project Costing and Feasibility Studies.
- Conceptual Design.
- Detailed Project Design and Costing.
- Approvals - Local Council, Fire Brigade, Statutory Authorities
- Project Management - Construction Schedules
Procurement
Cost Control and Reporting
Project Supervision
Sub-Contractor Management
- Construction - Fixed Price, Turn-Key
Selected Portion Construction

AUTOGAS

Air & Gas Industries has been involved in the design of automotive gas refuelling facilities since 1978.

The company pioneered the move to underground storage and has continued to provide innovative designs focussing on maximising performance while reducing installation time and costs.

We are able to provide:

- Site assessment and conceptual layout.
- Detailed design and costing including preparation of specifications and working drawings.
- Complete installation and commissioning of sites.
- Supervision of installation carried out by others.
- Development and preparation of safety management procedures manuals.
- Staff training.
- Technical / safety audits of existing facilities.
- 24 hour, 7 day per week service (Queensland and Northern NSW only).
- Assistance with compliance to AS1596 amendment No. 1 requirements.

ELECTRICAL AND CONTROL SYSTEMS

The Electrical and Control Systems Division of Air & Gas Industries specialises in the design and installation of control and management systems for both liquefied gas storage terminals and gas burning equipment.

All control panels are built in our works and all systems are fully tested prior to installation.

The range of work covered includes:

- Terminal Management systems for installations ranging from 20 tonnes to several thousand tonnes.
- SCADA systems for the collection and analysis of operational performance and system status.
- Control panels/systems for furnaces, ovens, etc.
- Interactive operational/SCADA systems for galvanizing plants.
- Level gauging.
- Automated cylinder filling.

ENGINEERING & DESIGN

Air and Gas Industries is able to provide the following range of professional engineering services to companies involved in the storage and handling of liquefied gases.

Feasibility engineering *i.e.* outline design and budget pricing

Air and Gas Industries has, over the past twenty five years, assembled a wealth of knowledge and experience in the design and construction of L P Gas handling facilities. Our data bases can be used to quickly and accurately prepare preliminary designs and budgets.

Detailed engineering design

- Electrical, mechanical and instrumentation - in house
- Civil, structural etc - sub contract

Our company has developed a skilled and experienced team of Engineers and support staff who can develop designs that relate to practical operational requirements and are in keeping with industry advancements. This experience and operational knowledge means that facilities are not over engineered, they are functional and operator friendly, and that the construction costs are kept reasonable.

Air and Gas Industries is well represented on both industry and Standards Australia committees providing an up to date knowledge of latest codes and standards. The experience gained in carrying out similar work for a range of companies also means that the latest industry standards will be taken into account when preparing any designs.

Preparation of specifications, drawings etc in a form suitable for tender purposes

Air and Gas Industries carried out this function for a 2500 tonne mounded seaboard terminal in Cairns as well as numerous smaller terminals both in Australia and the Pacific Region. The quality and level of documentation prepared is available as evidence of our capabilities in this area.

Contract management and supervision

Contract management and project supervision can be provided as assistance to your internal Engineering Department staff.

Audit of existing facilities

Air and Gas Industries has experienced engineering personnel who are available to carry out audits of gas terminals and other facilities. This work includes both a physical audit of hardware as well as operating systems and on site operating performance.

Safety management

Air and Gas Industries can prepare a full Safety Management Plan, including the preparation of standard operating procedures, and provide both implementation training and follow up audits if necessary.

Design of Bulk Storage Facilities

Air and Gas Industries has substantial experience in the engineering design of bulk storage facilities for L.P.Gas, Carbon Dioxide and Anhydrous Ammonia.

Designs undertaken include above ground, mounded and underground storage facilities up to 2500 tonnes, pumping and handling equipment for all sizes of installations from retail automotive sites to seaboard import and export terminals.

Special emphasis has been placed on the development of PLC based terminal control and management systems.

We can coordinate civil and other design functions to provide complete packages.

Vaporisation Systems

Experience in the design of L.P.Gas and Carbon Dioxide vaporisation systems with installations of up to 70m BTU/hr having been designed.

Distribution

Engineering advice and design for gas and liquid pipelines and reticulation systems.

Road Tanker Design

Air & Gas Industries has been a pioneer in the design of Road Tankers for the carriage of L.P.Gas in Australia. Road Tankers are designed to meet all relevant standards and clients special needs. Air & Gas Industries road tanker designs incorporate unique features offering greater safety and simplicity of operation.

Fire Protection Systems

Considerable experience in the design of fire protection systems for gas plant and road and rail tanker load out points, has been accumulated. Standard designs for deluge spray systems available.

Rail Car Unloading Gantries

Standard designs for rail car unloading gantries are available. Special applications design can be carried out.

DESIGN PACKAGES

Current design software packages include Autocad and Solidworks for three dimensional design. Solid modelling techniques have been shown to significantly improve design quality and reduce time and costs.

At the same time they produce parametric designs that can be instantaneously varied to suit changed conditions.

Using the latest available software (Cosmos) we are able to carry out Finite Element Analysis of designed equipment. This allows a complex analysis of stresses and strains produced by pressure, thermal loads and or external stresses under various constraint conditions.

FIRE PROTECTION SYSTEMS

Air & Gas Industries has substantial experience in the design, manufacture and installation of Fire Deluge Systems.

Particular emphasis has been placed on systems for LPGas terminals and petrochemical plants.

Utilising latest computer-aided analysis and design techniques, we are able to properly analyse your requirements and design a system that maximises the effectiveness of the protection.

Air & Gas Industries is a member of the National Fire Contractors Association.

GALVANIZING SYSTEMS

Air & Gas Industries has supplied equipment and services to the Galvanizing industry for over seventeen years - custom designing a full range of combustion systems backed up with a complete package of ancillary equipment including kettles, emersion burners, spinning equipment together with extremely sophisticated PLC plant control systems.

Air & Gas installations are purpose designed to deliver optimum levels of performance while achieving the longest "in-service" life from each component of equipment.

Galvanizing Kettles

Air & Gas Industries kettles are fabricated from a specially developed low carbon grade of steel supplied by BHP Australia.

The steel plates are manufactured to comply with the Australian Standard AS3678-A1006 - a grade specifically manufactured to prolong kettle life.

Air & Gas kettles are fabricated in conformance with Australian Standard AS1710 - all critical welds are ultrasonically tested to guarantee 100% weld integrity.

Multi Purpose Galvanizing Assemblies

Air & Gas Industries has specialised in designing a range of compact *multi-purpose* plants that are extremely easy to install and commission.

These dual purpose plants are fitted with demountable spinning equipment which features a variable speed centrifuge equipped with "in bath" controlled agitation settings.

These assemblies are ideal for galvanizing pipe fittings - including elbows and tees, threaded bolts, a broad range of building hardware and chain.

PLC Furnace Control System

The AGI control system are easy to operate and incorporate a host of features not normally available on control systems of this type.

- Metal temperature is continuously monitored and displayed on a digital panel.
- The information being recorded by the control system can be relayed to a remote terminal.
- The system has been designed to permit rapid and efficient diagnosis of faults from any part of the world where a stable telephone connection can be maintained.

The AGI Systems are innovative, yet extremely reliable.

INDUSTRIAL COMBUSTION

The Industrial Heating Division was created to concentrate on the design, manufacture and installation of industrial heating appliances.

We are able to offer heating systems for either gas, oil or electricity.

We have been designing and building furnaces for more than ten years and in that time have acquired a considerable amount of experience, particularly in the area of gas fired equipment.

More recently we have expanded our activities to include electrically heated furnaces.

The strong metallurgical background of the company assists us to provide competent advice in the area of heat treatment furnaces.

Work undertaken to date includes the following;

Furnaces	-	Design and installation of bogey hearth, annealing, billet heating tempering & stress relieving, furnaces.
Brick Kilns	-	Design of combustion systems and pipework for down draft, tunnel and batch type kilns.
Galvanising Plant	-	Installation and design of burner systems and upgrades for galvanising plant.
Furnace Conversions	-	Conversion of furnaces from oil and coal fired to gas fired. Commissions include heat treatment furnaces and brick kilns.
Drying Systems	-	Design and installation of dryers for paper, minerals, bone and coffee.
Asphalt Plants	-	Installation and design of combustion systems both liquid and vapour fired for asphalt plants.
Powder Coating	-	Design and installation of powder coating ovens up to 30m long.

LPGAS STORAGE HANDLING

Air and Gas Industries has developed considerable expertise both in the design and the construction of storage and handling facilities for both LPGas and Anhydrous Ammonia.

This experience includes:

- Bulk storage and handling facilities.
- Ship unloading system.
- Road/rail tanker loading and unloading.
- Vapourisation systems
- Retail autogas service stations
- Regulator and metering stations
- Fire protection systems
- PLC-based terminal management systems
- SCADA systems

In any of the above areas we are able to provide part or all of the following services:

- Project Costing and Feasibility Studies.
- Conceptual Design.
- Detailed Project Design and Costing.
- Approvals - Local Council, Fire Brigade, Statutory Authorities
- Project Management - Construction Schedules
Procurement
Cost Control and Reporting
Project Supervision
Sub-Contractor Management
- Construction - Fixed Price, Turn-Key
Selected Portion Construction

NATURAL GAS

Air & Gas Industries has for many years carried out conversion work on commercial and industrial appliances.

In 1995 we were contracted by the Gas Corporation of Queensland to convert the North Side of Brisbane from Towns Gas to Natural Gas.

This work involved domestic, commercial and industrial users.

The service that we provided to Gas Corporation included:-

- Manufacture/modification of meter sets
- Conversion of domestic appliances
- Conversion of commercial and industrial appliances

To achieve the very tight schedules set by our client we had approximately 45 employees committed to the project. All employees were specifically trained or retrained for the project.

The project was completed some 4-5 months ahead of schedule.

Our company is uniquely placed to provide a range of services that cover:-

- Project evaluation and feasibility assessments including both technical and financial issues.
- Customer facility survey and analysis of results.
- Planning and preparation of schedules.
- Materials and spare parts resource definition.
- Sector mapping and definition.
- Conversion of all appliances.
- Post conversion follow up.

We are experienced in the design, supply and installation of both strong team of experienced gas industry personnel many with significant conversion experience. These range from senior engineers, drafts people, technicians, supervisors and tradesmen.

PRODUCT SALES

Air and Gas Industries markets a range of specialist products that includes:

LPGas:

- Vapourisers
- Tanker interlock systems
- Emergency shut down
- PLC based control and management systems
- Tank gauging
- LPG Hoses and hose reels
- Valves and fittings.

Cylinder Filling:

- Single scales
- Carousel filling systems
- Filling nozzles
- Cylinder inverters

Tankers:

- Hose reels
- Tachometers
- LPG Hoses
- Stability (Rollover) Sensors
- PLC controls
- Pneumatic control and fittings

Combustion:

- Atmospheric burners
- Forced draft burners
- Packaged burners

- Regulators
- Safety Shut Down valves
- Gas trains
- Control panels
- Thermocouples

Galvanizing:

- Centrifuges
Galvanizing kettles and systems

Natural Gas:

- Filters
- Regulator skids
- Metering skids
- SNG plants and systems.

Comprehensive details on any of these products is available on request.

SERVICE AND MAINTENANCE

The provision of quality and responsive **Service** and **Maintenance** is a fundamental part of the Air & Gas Industries business.

Our large Service Department, with purpose equipped, radio controlled vehicles operates 24 hours per day 7 days per week.

This service is directed at:

- Autogas retailing sites.
- Industrial gas consumers.
- LPGas storage and handling facilities.

Incorporated within this service function are:

- Ad hoc service of equipment (mechanical and electrical).
- Planned maintenance.
- Calibration of LPGas meters.
- Emergency response.
- Inspection and re-certification of pressure vessels.
- Testing and certification of pressure relief valves.
- Testing and certification of LPGas hoses
- Testing and re-certification of gas cylinders.
- Inspection and Audits of Autogas sites to ensure compliance with Statutory and Code requirements.
- Inspection and Audits of LPGas storage and handling facilities.

Air & Gas industries is the largest Queensland employer of licensed gas fitters outside of the major gas utilities.

In addition, the Service Department is supported by a work force that includes qualified engineers, metallurgists, gas engineers and skilled trades people.

We believe that our company offers the widest range of gas industry experience and capabilities of any service provider in Australia.

INSPECTION & TESTING

Air & Gas Industries offers a comprehensive range of inspection and testing capabilities for L.P.Gas equipment. Facilities and fully qualified personnel are available for the inspection and testing of L.P.Gas meters, cylinders, hoses and relief valves.

Meter Calibration

Facilities exist for the calibration and certification of L.P.Gas meters. This can be done three ways.

Bench Calibration

Full bench proving equipment is maintained to ensure that serviced meters are bench calibrated prior to Shipment.

On Site Calibration

A mobile calibration unit enables us to quickly and easily calibrate fixed position meters such as driveway flow meters. Completely portable and manned by experienced and licensed technicians the meter can be serviced, repaired if necessary, re-calibrated and sealed.

Tanker "Bulk Drop" Meters

AGI operate an approved facility that enables bulk meters eg. road tanker meters to be calibrated under 'large drop' conditions.

This means that tankers can be calibrated without the need for weigh bridges, second tankers etc thereby reducing down time and calibration costs.

Staffing

Air and Gas Industries is an approved meter repair organisation and employs a number of licensed technicians.

Cylinder Tank Testing and Inspection

Air & Gas Industries is an SAA approved cylinder test station with full facilities to recertify L.P.G. cylinders. Qualified staff are available to undertake the inspection and recertification of L.P.Gas tanks on clients premises.

SPECIALISED TRANSPORT EQUIPMENT

Road Tankers - Liquefied Gases

Air and Gas Industries designs and constructs or constructs to clients design road tankers for the transport of L.P.Gas, Carbon Dioxide and Anhydrous Ammonia.

Clients include all major gas merchants and tanker sizes constructed range from 2000 l capacity to 20 tonne.

Air & Gas Industries has been a pioneer in the design of Road Tankers for the carriage of L.P.Gas in Australia. Road Tankers are designed to meet all relevant standards and clients' special needs. Air & Gas Industries road tanker designs incorporate unique features offering greater safety and simplicity of operation.

Liquid Waste Tankers

A wide range of vacuum and pressure/vacuum tankers for the collection and transport of waste materials is offered. Units can be custom designed for specific applications.

Units can be dedicated vacuum tankers for the removal of sludge, sewage and liquid waste or combination vacuum/pressure tankers than enables wet and dry products to be pumped out with greater efficiency.

Tanks and pipework are available in either steel or stainless steel mounted on either fixed chassis, trailer or semi trailer.

Pneumatic Pressure Tankers

Air & Gas Industries manufacture a wide range of pneumatic pressure tankers for the transportation of materials such as sugar, lime, stock feed etc.

Made under licence to BULK PRESSURE TANKERS PTY LTD, these tankers are of proven design with a solid history of reliability and performance.

A full range of configurations is available ranging from rigid tankers to articulated tankers and B. Double styles. Tankers suitable for rail transport are also available.

Rigid tankers normally range in capacity from 20-28 cubic metres while the articulated tankers can be designed for capacities up to 57m³.

SPECIALISED PIPE WELDING

Road Tankers - Liquefied Gases

Air & Gas Industries designs and constructs or constructs to clients design road tankers for the transport of LP Gas, Carbon Dioxide and anhydrous Ammonia.

Clients include all major gas merchants and tanker sizes constructed range from 2000 l capacity to 20 tonne.

Air & Gas Industries has been a pioneer in the design of road tankers for the carriage of LP Gas in Australia. Road tankers are designed to meet all relevant standards and clients' special needs. Air & Gas Industries road tanker designs incorporate unique features offering greater safety and simplicity of operation.

Liquid Waste Tankers

A wide range of vacuum and pressure/vacuum tankers for the collection and transport of waste materials is offered. Units can be custom designed for specific applications.

Units can be dedicated vacuum tankers for the removal of sludge, sewage and liquid waste or combination vacuum/pressure tankers that enables wet and dry products to be pumped out with greater efficiency.

Tanks and pipework are available in either steel or stainless steel mounted on either fixed chassis, trailer or semi trailer.

Pneumatic Pressure Tankers

Air & Gas industries manufacture a wide range of pneumatic pressure tankers for the transportation of materials such as sugar, lime, stock feed etc.

Made under licence to BULK PRESSURE TANKERS PTY LTD, these tankers are of proven design with a solid history of reliability and performance.

A full range of configurations is available ranging from rigid tankers to articulated tankers and B Double styles. Tankers suitable for rail transport are also available.

Rigid tankers normally range in capacity from 20-28 cubic metres while the articulated tankers can be designed for capacities up to 57 cubic metres.

QUALITY ASSURANCE

Air & Gas Industries has introduced a Quality Assurance programme in accordance with AS 3902.

Independent of this it has been a long term policy to have within the company a culture that is built around the desire to be a service provider of the highest quality.

QUALITY STATEMENT

The quality of products and services manufactured or performed by our Company must be the concern of every person in the organisation.

Quality starts with the initial contact with the customer and continues through the design, estimating and manufacture phases to the after sales support of our product.

All employees are therefore critical to the meeting of our quality objectives.

We must carefully understand our customer's needs and then set about manufacturing a product, within the planned estimate at the required quality level. The only way to realise this is to "make it right the first time"

and in doing so quality levels will be raised, profitability improved and customer satisfaction ensured.

It is a Company requirement that the quality of all products provided by our Company is assured before delivery to a Customer and I ask all employees to actually support the implementation and continued maintenance of this Quality Assurance Policy.

W R JENKINS
Managing Director
3.8.88

SAFETY

Air & Gas Industries has in place a safety policy meeting the requirements of the Queensland Workplace Health and Safety Act 1995.

A Workplace Health and Safety programme has been developed to cover all aspects of the Company's activities and copies of this are available on request.

A trained and approved Safety Officer oversees the training and compliance with the Company's safety objectives.

OCCUPATIONAL HEALTH AND SAFETY POLICY

The safety, health and well-being of our employees are of the utmost importance and it is my wish therefore that all levels of management and supervision should regard these as their highest priorities. It is important that the health, safety and well-being of our employees should not be in any way impaired or prejudiced as a result of working within the Company.

All employees must take all reasonable steps to eliminate all of the risks and hazards which could be prejudicial to the safety or health of our employees. If the risks cannot be entirely eliminated, then it is the responsibility of both management and employees to see that effective guarding is in place and protective clothing and equipment is used when required so that work can be performed without risk.

All levels of supervision are responsible for the prevention of accidents to their employees and for their protection against damage to health arising from the work environment. In this regard, particular attention must be given to new and young employees. Good housekeeping must be maintained at all times and unsafe practices must not be allowed. Work must not be carried out using unsafe or unprotected equipment. New or altered machinery or equipment must be fully guarded, if required, before being operated.

Employees are responsible for ensuring that they work safely and in accordance with the Company's safety procedures and requirements. Should any doubt exist, Supervisors are available to advise the correct method of working on any job required to be done. The Company's responsibilities are to ensure a healthy, safe and clean workplace and to provide equipment to protect employees to enable them to work in a safe manner.

The Company seeks the cooperation of all of its employees in upholding a high standard of accident prevention.

W.R. JENKINS
Managing Director

APPROVALS

Air & Gas Industries holds the following Approvals and Licences.

QLD Natural Resources and Mines

- Gas Work Authorisation Number A0197

QLD Natural Resources and Mines

- Type B Appliance Approving Authority

QLD Consumer Affairs, Department of Weights & Measure

- Meter Calibration

QLD Department of Transport

- Motor Vehicle Modifications

NSW Building Services Corporation

- L.P.Gas Contractors Licence

NSW Consumer Affairs, Department of Weights & Measures

- Meter Calibration

PROFESSIONAL AND INDUSTRY PARTICIPATION

CORPORATE

- | | | |
|--------|---|---|
| Member | - | Australian Liquefied Petroleum Gas Association. |
| | - | Standards Association of Australia. |
| | - | Fire Protection Contractors Association. |

INDIVIDUAL

S.P Graham

- | | | |
|----------|---|--|
| Chairman | | LPG Australia – Qld Branch |
| Member | - | Qld. Government Gas Industry Liaison Committee. |
| Member | - | LPG Australia Technical Committee. |
| Member | - | SAA Committee ME/15 Storage and Handling of L.P.Gas. |
| Member | - | SAA Committee ME/56 Transportation of Dangerous Goods. |
| Member | - | Institution of Engineers. |

REFERENCE MATERIALS

Air & Gas Industries maintains a fully stocked library of Australian and overseas standards appropriate to our work and subscribes to technical journals relating to our industry.

PROJECTS SUMMARY

Attached is a glossary of projects undertaken in recent times. The list is extensive and perusal will give a broad insight into the work we do.

ROAD TRANSPORT



Air & Gas Industries designs and manufactures a range of tankers to transport Anhydrous Ammonia.

Capacities range from 2t to 10t.

Tankers shown above were constructed for Incitec – Big N Division.

AUTOMOTIVE L.P.GAS OUTLETS

A large number of automotive L.P.G. retail outlets have been constructed. These comprise both of above ground and underground storage. Air & Gas Industries designed and constructed the first underground storage in Queensland and has continued to provide innovative designs that maximise the efficiency of the installation while keeping costs at realistic levels.

A sample of automotive retail installations carried out by Air & Gas Industries are located as follows:

SHELL (GOGAS)	-	Gailes, Coopers Plains, Toowoomba, Oxley, Black and White Cabs, Kedron, Strathpine, Labrador, Miami, Boggabilla, Durack.
MOBIL	-	Murarrie, Oxley, Mt Gravatt, Woolloongabba, Kedron, Aspley, Pacific Fair, Bundamba, Newmarket, Compton Road, Rocklea, Tweed Heads, Truck City Camperdown NSW, Victoria Point.
Rocklea, Ryde W,		
BORAL	-	Blue and White Cabs, Redcliffe Taxis, Ascot Taxis, Lawnton, Rocklea
AMOCO	-	West Chermside, Sunnybank, West End.
AMPOL	-	Yellow Taxi Depot, Hamilton, Lutwyche, Gailes, Wynnum, Aspley.
ELGAS	-	Labrador, Bribie Island, Woodridge
BURMAH	-	Beenleigh, Bray Park.
BP	-	Goodna, Logan
QUIX	-	Ashmore, Robina, Pacific Fair.

In addition, we manufacture and market a range of skid mounted industrial units for Fork-lift Truck refuelling and similar applications.

INDUSTRIAL LIQUEFIED GAS STORAGE/HANDLING

BECHTEL - GLADSTONE	-	120 tonnes storage, with electric vaporisers cylinder filling platform, auto-filling, fire spray system
PEANUT MARKETING BOARD	-	50 tonne storage, vaporiser
COTTON MARKETING BOARD	-	20 tonne storage cotton gin vaporisers reticulation
COTTON MARKETING BOARD CECIL PLAINS (QLD)	-	40 tonne storage vaporiser burner reticulation
GAS SUPPLY FRANCHISES	-	1200 tonne cylinder filling, (TOWNSVILLE) road and rail load points, 1.2km x 50mm dia. and 100mm dia. ow temp ship unloading lines
GAS CORPORATION (IPSWICH)	-	50 tonnes storage truck load out cylinder filling
ALLGAS (TOOWOOMBA)	-	50 tonnes storage
A.C.F. DALBY	-	80 tonne ammonia storage and ancillary works
A.C.F. COLONSAY	-	80 tonne ammonia storage and ancillary works
Q.A.L. GLADSTONE	-	Ammonia storage for flue gas control
BORAL GAS	-	30 tonne installation for Nestle's Foods 18.3.92 Gympie

INDUSTRIAL LIQUEFIED GAS STORAGE/HANDLING

Q.A.L. GLADSTONE	-	Pot bake out furnace	
SHELL COMPANY	-	20 tonne LPG Storage, cylinder filling platform etc	
	-	Murwillumbah	
SHELL COMPANY	-	As above - Nambour	
GAS CORPORATION OF QUEENSLAND	-	60 tonne Mounded Storage with complete Terminal Facilities	-
		Maroochydore Qld.	
AUSTRALIAN PAPER MILLS	-	50 tonne Storage, Vaporisers complete burner system	
PORT DOUGLAS RESORT	-	25 tonne underground storage reticulation to all facilities	
BORAL GAS (SOLOMON ISLAND)	-	L.P.Gas Terminal, Honiara, Solomon Islands	
WARWICK DAIRY	-	30 tonne storage, vaporisers and, reticulation to boilers	
LIGHTNING RIDGE GAS CO.	-	30 tonne storage, truck load out and cylinder filling	
COTTON GIN MOREE	-	20 tonne storage vaporisers, reticulation burner system	
MINPROC GLADSTONE	-	180 tonne storage fire sprays, reticulation	
GAS CORPORATION OF QUEENSLAND	-	30 tonne storage gas vaporiser reticulation Nestle's Gympie	

INDUSTRIAL LIQUEFIED GAS STORAGE/ HANDLING

BORAL GAS WESTERN SAMOA	-	150 tonne LPGas terminal undersea pipeline complete turnkey project
ELGAS LTD TOOWOOMBA	-	50 tonne LPGas terminal mounded storage Scada system
MT ISA MINES MT ISA	-	50 tonne LPGas storage vapourisers
GAS CORPORATION OF QLD GOLD COAST	-	100 tonne L.PGas terminal tanker load out and cylinder filling
GAS CORPORATION OF QLD MAREEBA	-	30 tonne mounded storage office building civic work compressor fillpoint pneumatics Cathodic Protection
GAS CORPORATION OF QLD MAROOCHYDORE	-	Mounded storage, convert vessel from aboveground tank to mounded vessel. Two fillpoints compressor cylinder fill shed
GAS CORPORATION OF QLD	-	To carry out complete Mechanical Design for 2500 tonne mounded LPG storage. Work involved preparation of specification and documents for construction tender
BORAL GAS (NSW) PTY LIMITED	-	To design and construct new terminal at Coffs Harbour NSW. Total turn-key project including civil and road works, buildings Mechanical and Fire Protection
GAS CORPORATION OF QLD	-	Construction of 2500 tonne L.P.Gas terminal Cairns. All work except civils road works and buildings
BRIBIE ISLAND BRICKS	-	50 tonne storage (Butane) liquid withdrawal. 9 vaporisers pipe vapour to brick kilns
BRIBIE ISLAND BRICKS	-	30 tonne propane storage liquid withdrawal to vaporisers

CAPABILITY STATEMENT

READYMIX STRATHPINE	-	50 tonne storage pipework liquid lines to liquid burner
BORAL GAS (NSW) PTY LIMITED	-	To design and construct new 200 tonne terminal at Newcastle NSW. Total turn-key project including civil and road works, buildings, mechanical and Fire Protection.

DESIGN AND CONSTRUCTION OF L.P.GAS ROAD TANKERS

Air and Gas Industries is a leading designer and manufacturer of Road Tankers for Liquefied Gases.

Tanker units are sold on a regular basis to almost every major Gas Utility including:

AMPOL PETROLEUM
BORAL GAS QLD PTY LTD
GAS SUPPLY FRANCHISES QLD PTY LTD
BORAL GAS NSW PTY LTD
INVERELL GAS COMPANY
SHELL GAS
PORTA GAS PTY LTD
ALICE SPRINGS GAS CENTRE
BORAL GAS (NEW GUINEA) LTD
ELGAS LTD
NORFOLK ISLAND GAS COMPANY
LISMORE GAS COMPANY
GAS CORPORATION OF QUEENSLAND
CITY GAS - ARMIDALE
ALLGAS ENERGY
LIGHTNING RIDGE
MOBIL OIL - PNG
BORAL GAS (VANUATU) LTD
ORANGE CITY COUNCIL - WESTGAS
THE FIJI GAS COMPANY - SUVA
WESFARMERS KLEENHEAT PTY LTD
ENERGEX

DESIGN AND CONSTRUCTION OF PRESSURE-VACUUM LIQUID TANKERS

Air and Gas Industries is a leading designer and manufacturer of Road Tankers for pressure - vacuum liquids.

TRANSPACIFIC INDUSTRIES

N.Q. RESOURCES

ZAPPAWAY

N.T. RESOURCES

WESTERN RESOURCE RECOVERY

DESIGN AND CONSTRUCTION OF HEAT TREATMENT FURNACES

AUSTCAST	-	Design, manufacture and installation of bogey hearth furnace
SEAR AND GUNN	-	Design and manufacture of automated Billet heating furnace
HEAT TREATMENT PTY LTD	-	Design and construction of large Annealing Furnace
CONNELLAN & SON PTY LTD	-	Design and manufacture of Annealing Furnace
CONNELLAN & SON PTY LTD	-	Design, manufacture of Tempering Furnace
ST HELENS CLAY PAVERS	-	Conversion of 5 kilns from Coal to Gas
QLD RAILWAYS	-	New down draught fully automated Rail Heating Furnace Blacksmiths forges
WALKERS LTD	-	Design and manufacture of 6m x 5m x 2.4m Heat Treatment Furnace
WALKERS LTD	-	Oil to gas conversion Bogey Hearth Furnace
AUSTCAST FOUNDRY	-	Scrap pre-heater
BRADKEN SALISBURY	-	Design and up-grade Annealing and aging Furnaces
BRADKEN RUNCORN	-	Design and up-grade combustion systems on 5 off Annealing furnaces

DESIGN AND CONSTRUCTION OF HEAT TREATMENT FURNACES

AUSTCAST FOUNDRY	-	Up-grade and conversion of heat treatment furnace from oil to gas
ANI - RUWOLT	-	Re-build two heat treatment Furnaces No. 1 and No. 2
ANI - RUWOLT	-	Consult, design, supervise stress relieving furnace for 80 tonne pressure vessel
BRADKEN - RUNCORN	-	Design and install combustion to No. 6 annealing furnace
BRADKEN - RUNCORN	-	Combustion system to pre-heat oven (3 units)
BRADKEN - IPSWICH	-	No. 1 furnace. Design and install 6 Burner conversion to Tempest high velocity burners
AUSTCAST FOUNDRY	-	Turn key supply 4m x 2m annealing furnace
WHITES DALBY	-	Turn key supply 1.5m ² annealing furnace

DESIGN AND CONSTRUCTION OF GALVANIZING ASSEMBLIES

SOUTHERN CROSS FOUNDRY	-	Upgrade galvanizing combustion system.
INDUSTRIAL GALVANIZERS (DELTA)	-	Installation of gas fired systems to structural furnace, spinning kettle and pre-treatment vessels.
INDUSTRIAL GALVANIZERS - PINKENBA	-	Installation of gas combustion systems to main furnace and pre-treatment tanks.
BANGKOK STEEL COATING CO LTD	-	Design and installation of purpose built spinning plant.
MARUICHI MALAYSIA STEEL TUBE BHD	-	Design and fabrication of galvanizing kettle.
TS METAL CASTING - MALAYSIA	-	Design and fabrication of galvanizing kettle.
INDUSTRIAL GALVANIZERS - HEXHAM	-	Design and construction of heating hoods and installation of PLC control systems.
INDUSTRIAL GALVANIZERS OF THE PHILIPPINES	-	Construction of LPGas combustion system and control panels.
PALMER TUBE MILLS - ACACIA RIDGE	-	Construction of strip plant coil drying cabinet.

DESIGN AND CONSTRUCTION OF DRYING SYSTEMS

AUST. PAPER MANUFACTURERS	-	Installation of 25 Gj infra red paper drying system (Kreiger Gmbh and Valmet)
BORAL RESOURCES LTD	-	Gas Fired Asphalt Plants (3 off)
ROAD SURFACES GROUP	-	Liquid L.P.G. Fired Asphalt Plant
BRISBANE ABATTOIR	-	Bone Mill Drier
CONSOLIDATED RUTILE LTD	-	Mineral Driers (2 off) 1 x 12 mBtu/hr 1 x 8 mBtu/hr
READY MIX	-	Asphalt Plant 100t/hr
EMOLEUM	-	Asphalt Plant 100t/hr
FOXGANG	-	Powder coating oven (30m)
COTTON MARKETING BOARD EMERALD	-	Supply and install burner system, conversion diesel to gas
NESTLES GYMPIE	-	Spray drier for coffee drier (4 units) at 3,000MJ each

BRICK KILNS

N.J. HURLL	-	Brick Kiln (Boral Darra No.1)
SWINDLER DRESSLER	-	Brick Kiln (Austral Brick 1993) (Claypave 1993)
CLAYPAVE	-	Brick Kiln (No.4 down draught)
WIDE BAY BRICKS	-	Tunnel Kiln
BRICKWORKS LTD	-	Tunnel Kiln
ST. HELENS PAVERS	-	Brick Kiln (down draught)

CAPABILITY STATEMENT

BORAL BRICKS	-	Tunnel Kiln Gas System
PGH	-	Tunnel Kiln Gas System
CLAYPAVE	-	No. 2 Tunnel Kiln
COOMBELL BRICK	-	Convert down draught kiln from coal to gas

INDUSTRIAL GAS FIRED EQUIPMENT

FORD MOTOR COMPANY	-	Conversion of Eagle Farm Plant to Natural Gas
ALCAN AUSTRALIA LTD	-	Conversion of Plant to Natural Gas
ROVER MOWERS	-	Conversion of Plant to Natural Gas
ROVER MOWERS	-	Modify/install incinerator
AUSTRALIAN PAPER MILLS	-	Conversion of Plant to L.P.G. Firing
VICKERS U.K.	-	Manufacture install and commission 4 Biscuit ovens for Arnott Morrow
NESTLES - FRISKES	-	Re-design and up-grade combustion system for Biscuit oven
PARADISE FOODS	-	Up-grade and commission Biscuit oven
COTTON MARKETING BOARD	-	Reticulate natural gas/install DALBY commission gas burners 20,000MJ
AMCOR PAPER	-	APM Petrie 1993 reticulate to and install air drying and infra red drying to mill input 25GJ natural gas
TOX FREE SYSTEMS	-	Design & build soil de-tox system
MULTI ENGINEERING	-	Special effects volcano
SEAR & GUNN	-	Automated billet furnace
KINGAROY BLANCHING	-	Commissioning of peanut roasting machine
AGRIDRI RIMIK	-	Grain dryer liquid/vapour combustion systems

INDUSTRIAL GAS FIRED EQUIPMENT

TOLUMUMA GOLD MINE PAPUA NEW GUINEA	-	Conversion of electric heater to diesel for carbon regeneration plant
INDUSTRIAL GALVANIZERS HEXHAM	-	Design and construct PLC controlled top fired gas heating system
TRANSFIELD GALVANIZING BRISBANE	-	Design and install PLC controlled burner system No 2 galvanizing kettle (8 Gj) and caustic immersion heater (1.5 Gj)
INDUSTRIAL GALVANIZERS PHILLIPINES	-	Supply and commission four burner system
INDUSTRIAL GALVANIZERS PHILIPPINES	-	Construct, supply and commission caustic heating sytem
INVESTMENT CASTINGS BRISBANE	-	Design, construct and install wax burn off furnace for lost wax process
BORAL BRICKS BRISBANE	-	Design install and commission upgrade to brick tunnel kiln pre-heating zones plant 1 and plant 3, kiln 1 and kiln 2.
WALKERS FOUNDRY MARYBOROUGH	-	Design and construct ladle heating wall
BRADKEN RUNCORN	-	Design and install high velocity burner system to n°. 7 heat treatment furnace.

INDUSTRIAL GAS FIRED EQUIPMENT

QUEENSLAND COTTON EMERALD	-	Design of humidifier.
BRADKEN RUNCORN	-	Design and install oxy/natural gas control system to automatic flame hardening burners for quench and temper furnace.
BANGKOK STEEL COATINGS THAILAND	-	Design construction installation and commissioning of turn key 4m galvanizing assembly
PALMER TUBE MILL SUNSHINE VICTORIA	-	Turn key design construction of infra red heater tunnel
PALMER TUBE MILL BRISBANE	-	Construction of flux drying cabinet

SPECIALISED BUILDING SERVICES

KELVIN GROVE C.A.E. SCIENCE BUILDING	-	Specialist Services (Air, Gas, Water, Vacuum)
YERONGA DENTAL CLINIC	-	Specialist Services (Air, Gas, Suction, Treated Water, Vacuum)
HOLLAND PARK DENTAL CLINIC	-	Specialist Services (Air, Gas, Suction, Treated Water, Vacuum)
RADON LABORATORY R.B.H.	-	Specialist Services (Vacuum, Compressed Air, Suction Cleaning)
DIALYSIS UNIT P.A. HOSPITAL	-	Reverse Osmosis Water Treatment System
GERIATRICS UNIT P.A.H.	-	Steam, Air, Water
WESLEY HOSPITAL	-	Steam, Air Conditioning Services, Compressed Air, Gas reticulation throughout hospital
MATER HOSPITAL	-	Steam Service including Civil Works, Condensate, Pumps etc.
CITY MUTUAL BUILDING	-	S/S Air Conditioning Pipework
M.L.C. BUILDING	-	Air Conditioning Pipework Sprinkler Pipework
GRIFFITH UNIVERSITY LABORATORY	-	Special Services (Air, S.A.E.S. Vacuum, Water, Treated Water)

SPECIALISED BUILDING SERVICES

GOLD COAST T.A.F.E.	-	Special Services
GATTON AG. COLLEGE	-	Special Services
BALD HILLS T.A.F.E.	-	Special Services Gas Reticulation
COOPER PLAINS	-	Special Services
MINES RESCUE BOOVAL	-	Special Services
NAMBOUR STATE HIGH DYSART, KEDRON	-	Special Services
SAINT MARKS INALA	-	Special Services
BEENLEIGH HIGH SCHOOL	-	Special Services
ITHACA T.A.F.E.	-	School Gases
COLLINSVILLE	-	Compressed Air, Reticulation Collinsville Installation
GREGORY MINE	-	Oxygen, L.P.G. and Acetylene, Bucket Repair Shop
NORWICH PARK MINE	-	Oxygen, L.P.G. and Acetylene, Bucket Repair Shop.
S.E.C. CALLIDE	-	Piped Services Callide 'B' Power Station
GOONYELLA MINE BUCKET REPAIR SHOP	-	Oxygen, L.P.G. Acetylene and Compressed Air

SPECIALISED BUILDING SERVICES

GRIFFITH UNIVERSITY	-	Compressed Air, Gas and Vacuum for General Purpose Science Block
CALLIDE POWER STATION LABORATORY	-	Special Gas Services
TOWNSVILLE TAFE	-	Inspection Testing and Certifying Special Gases Installation
PT KOMARITIM IRIAN JAYA	-	Supervision, Testing and Commissioning of large Oxygen and Acetylene Installation, Freeport Indonesia

FIRE PROTECTION SYSTEMS

DEPARTMENT OF ARMY	-	L.P.Gas Terminal - Enoggera
GAS CORPORATION OF QLD	-	L.P.Gas Terminal - Newstead
B.P. REFINERY	-	L.P.Gas Terminal - Bulwer Isle.
BORAL GAS W.A.	-	Upgrade facilities - Kalgoorlie
BORAL GAS SOLOMONS	-	L.P.Gas Terminal - Solomon Isles
GAS CORPORATION OF QLD	-	L.P.Gas Terminal - Ipswich
GAS CORPORATION OF QLD	-	L.P.Gas Terminal - Mareeba
GAS CORPORATION OF QLD	-	L.P.Gas Terminal - Maroochydore
OIL COMPANY OF AUSTRALIA	-	Upgrade Facilities - Kincora
MINPROC ENGINEERS	-	L.P.Gas Storage - Gladstone
WARWICK DAIRY COOPERATIVE	-	L.P.Gas Storage - Warwick
GAS CORPORATION OF QLD	-	L.P.Gas Terminal - Gold Coast
BRIBIE BRICKS LTD	-	L.P.Gas storage

FIRE PROTECTION SYSTEMS

GAS CORPORATION OF QLD NEWSTEAD	-	Replace sprinkler systems and feed pipes for 6 off 150 tonne L.P.G. bullets. Run and commission liquid filled sensing system and control bank
GAS CORPORATION OF QLD MAREEBA	-	Semi trailer deluge system, automatic and manual activation, liquid filled sensing system, fire indication panel connected to local Fire Brigade
GAS CORPORATION OF QLD BURLEIGH	-	2 off 50 tonne deluge systems, semi trailer deluge system, full liquid filled sensing system, manual and automatic system initiation.
ELGAS PTY LTD	-	Design and supply 20 tonne vessel deluge system in kit form for Mackay sugar. Heat detection system
WELLINGTON SHIRE COUNCIL	-	Design and supply in kit form; 1 x semi trailer deluge system 1 x 40 tonne vessel deluge system Heat detection systems

MEDICAL GASES

TOWNSVILLE HOSPITAL	-	Medical Gases
BUDERIM PRIVATE HOSPITAL	-	Medical Gases
ST. ANDREWS HOSPITAL	-	Medical Gases System
MATER HOSPITAL	-	Medical Gases 400 Bed Adult Hospital



PROJECT: *4m Galvanizing Kettle*

CLIENT: *Bangkok Steel Coatings*

REFERENCE: *14439*

DETAILS: *Bangkok Steel Coatings 4M hot dip galvanizing kettle was constructed and tested in our Wacol factory. The system was built as a "flat pack" assembly, including the refractory base. The "wine glass" design allows better ergonomics for the operator. The system took 10 days to assembly from unpacking to the first dip. An above bath spinner was included with the system.*



PROJECT: *Design, supply and commissioning of a galvanizing/ Spinning plant in Jarat Barat, Indonesia.*

CLIENT: *Industrial Galvanizers Limited
PT Bukit Terang Paksi Galvan, Indonesia*

REFERENCE: *16790*

DETAILS: *A high temperature (540°C) hot dip galvanizing kettle for small parts plating. The two burner kettle is a top fired system designed by Air and Gas Industries. It is designed for 300kg/hr and has been worked up to 500kg/hr. Nominal operating temperatures 495°C.*



Air & Gas Industries

A Unit of Air & Gas Holdings P/L. ABN 14 213 772 690



PROJECT: *Design and Manufacture of Crude Oil
Heat Exchange Furnace.*

CLIENT: *IOR Energy Pty Ltd*

REFERENCE: *15631 / 15716*



Air & Gas Industries

A Unit of Air & Gas Holdings P/L. ABN 14 213 772 690

PROJECT: *Queensland University of Technology Furnace*

CLIENT: *Queensland University of Technology, Brisbane*

REFERENCE: *41537*

DETAILS: *Specially designed and built furnace for testing of wall sections for heat resistance with a full temperature control system incorporated.*





- PROJECT:** *Queensland University of Technology
3 Segment Furnace*
- CLIENT:** *Queensland University of Technology, Brisbane*
- REFERENCE:** *43103*
- DETAILS:** *Furnace designed and built for testing of
structural sections of varying lengths. Design
included a full electrical control system for
maintaining temperature control.*





Air & Gas Industries

A Unit of Air & Gas Holdings P/L. ABN 14 213 772 690



PROJECT: *Water Wash Unit
BOC Port Kembla*

CLIENT: *Transfield - Worley*

REFERENCE: *15915 / 15151*

DETAILS: *System delivers pressurised clean water to a
Multistage DEMAG VK125/3 compressor.
Complete with PLC control system.*



Air & Gas Industries

A Unit of Air & Gas Holdings P/L. ABN 14 213 772 690



PROJECT: *Major upgrade to Anhydrous Ammonia Facility
Olympic Dam, South Australia*

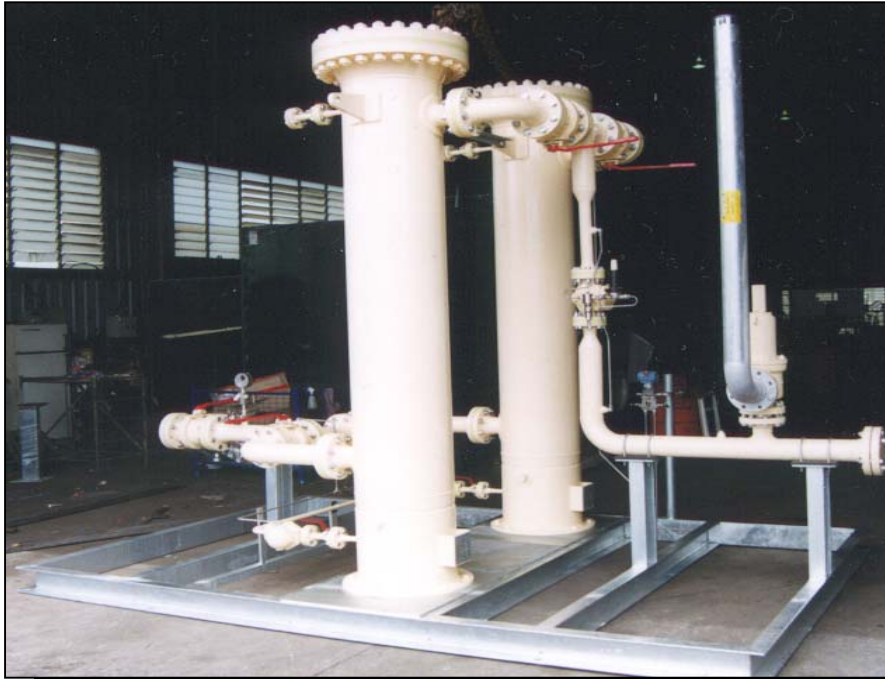
CLIENT: *WMC Resources - Olympic Dam*

REFERENCE: *17246*



Air & Gas Industries

A Unit of Air & Gas Holdings P/L. ABN 14 213 772 690



PROJECT: *Design and manufacture of Coalescing Filters
- skid mounted.*

CLIENT: *Alstom Power Limited*

REFERENCE: *14791*



Air & Gas Industries

A Unit of Air & Gas Holdings P/L. ABN 14 213 772 690



PROJECT: *Manufacture of Ignition Gas Skids.
Laverton, Victoria
Kemerton, Western Australia*

CLIENT: *Atlas RMG*

REFERENCE: *17290*

DETAILS: *Gas ignition skids to provide standby gas ignition
when power station reverts to diesel firing.*



PROJECT: *Coal Seam Gas Conditioning Equipment*

CLIENT: *Ergon Energy Power Station, Moranbah*

REFERENCE:

DETAILS: *Air and Gas Industries was contracted to design, construct and install coal seam gas conditioning equipment, piping and power generator fuel gas skids for the Ergon Energy Power Station located in Moranbah, Queensland.*

Air and Gas Industries was also commissioned to undertake the Type B Gas Appliance Approval for the gas fired power generators.

Air and Gas Industries is approved by the Queensland Department of Mines and Energy to certify Type B Gas Appliances with a rating of up to 100Tj/year.





Air & Gas Industries

A Unit of Air & Gas Holdings P/L. ABN 14 213 772 690

PROJECT: *QNP Ammonia Plant Pump Skid*

CLIENT: *QNP Nitrates, Moura*

REFERENCE: *18376*

DETAILS: *Supply of an Anhydrous Ammonia Pumping Skid.
Pump and control system sized to provide
1.3 - 13 tph at 0-40°C.*





Air & Gas Industries

A Unit of Air & Gas Holdings P/L. ABN 14 213 772 690



PROJECT: *QNP Ammonia Plant
Loading Bay Compressor Skid*

CLIENT: *Queensland Nitrates, Moura*

REFERENCE: *18376*

DETAILS: *Ammonia load bay compressor skid with controls
for unloading B Double trailers into site storage.*



Air & Gas Industries

A Unit of Air & Gas Holdings P/L. ABN 14 213 772 690

PROJECT: *QNP Ammonia Plant*

CLIENT: *QNP Nitrates, Moura*

REFERENCE: *18386*

DETAILS: *100 tonne Anhydrous Ammonia storage vessel.
AS1210 Class 1 designed for product temperatures
down to -33°C.*





PROJECT: *Gas Conditioning Skids
Alice Springs Power Station*

CLIENT: *SE Power*

REFERENCE: *12692*

DETAILS: *At the SE Power project we supplied gas metering and regulating skids complete with coalescing filters and condensate collection tank. The skid frames were set up with an active and monitor regulator set which reduced the incoming gas pressure from 7200kPa to 1000kPa which was then piped to the generating sets. The skids were fitted with coalesers which removed condensate and automatically discharged this to a holding tank. Metering was carried out by the use of orifice plates and differential pressure transmitters.*





Air & Gas Industries

A Unit of Air & Gas Holdings P/L. ABN 14 213 772 690

- PROJECT:** *WB4500 Water Bath Vapouriser*
- CLIENT:** *BHP Billiton, Roxby Uranium Mine,
Roxby Downs, South Australia*
- REFERENCE:** *42114*
- DETAILS:** *Supply and certification of a 430 Gj/hr water bath
LPG Vapouriser.*





Air & Gas Industries

A Unit of Air & Gas Holdings P/L. ABN 14 213 772 690

PROJECT: *Installation of 100 tonne LP Gas Storage Vessel*

CLIENT: *Boral Gas, Coffs Harbour, New South Wales*

REFERENCE:

DETAILS: *Turn key project - supplied and installed 100 tonne LP Gas mounded storage vessel, complete with load out facility and fire protection system. Scope included office building and roadworks.*





PROJECT: *Design, installation and commissioning of LP Gas Mounded Storage Facility.*

CLIENT: *Boral Gas, Mareeba, Queensland,*

REFERENCE:

DETAILS: *Turn key project - design, installation and commissioning of 50 tonne LP Gas mounded storage vessel complete with load out facility and fire protection system.*



Air & Gas Industries

A Unit of Air & Gas Holdings P/L. ABN 14 213 772 690

PROJECT: *Design, installation and commissioning of LP Gas Mounded Storage Facility.*

CLIENT: *Boral Gas, New South Wales, Newcastle*

REFERENCE:

DETAILS: *Turn key project - supplied and installed 2 x 100 tonne LP Gas mounded vessels. Complete with load out facility and fire protection systems.*





Air & Gas Industries

A Unit of Air & Gas Holdings P/L. ABN 14 213 772 690



PROJECT: *Installation of pipework for 100T LP Gas Storage Vessel*

CLIENT: *Boral Gas Pacific, Rabaul, Papua New Guinea*

REFERENCE:

DETAILS: *Installation of pipework for 100 tonne underground mounded storage vessel including day tank and load out facility.*



Air & Gas Industries

A Unit of Air & Gas Holdings P/L. ABN 14 213 772 690

PROJECT: *Design, installation and commissioning of LP Gas Terminal*

CLIENT: *Boral Gas Pacific, Solomon Islands*

REFERENCE:

DETAILS: *Design, construction and commissioning of 4 x 100T LP Gas Terminal. Complete with fire protection systems and load out facility.*





PROJECT: *Construction of 2500 tonne LP Gas Terminal.*

CLIENT: *Gas Corporation of Queensland, Cairns*

REFERENCE: *6555*

DETAILS: *The storage facility consisted of 10 x 250 tonne capacity storage tanks installed in two mounded groups.*

Liquid (250m) and vapour (150m) pipelines were installed from nearby shipping wharf (4kms) to the terminal.

The terminal included 2 road tanker load in/out facilities, cylinder filling platform and rail car load in/out.

Vapourisers and pressure regulating stations provided vapour to the City of Cairns.

Construction was carried out in accordance with mechanical design specifications previously prepared by Air and Gas Industries.





Air & Gas Industries

A Unit of Air & Gas Holdings P/L. ABN 14 213 772 690



PROJECT: *Swickers Piggery WB250 Water Bath Vapouriser*

CLIENT: *Origin Energy, Swickers Piggery, Kingaroy
Queensland*

REFERENCE: *ES65005*

DETAILS: *Supply and certification of a 24Gj/hr LPG
Vapouriser..*



PROJECT: *To design, manufacture and installation of semi-automated cylinder filling system.*

CLIENT: *Speed-E-Gas Pty Ltd, New South Wales*

REFERENCE:

DETAILS: *Air and Gas Industries designed and built a carousel style filling system capable of filling 18kg and 45kg cylinders.*
Project involved cylinder handling system, conveyors, filling platform with 8 filling stations and check weighing unit.
This was the first semi-automated system installed in Australia.





Air & Gas Industries

A Unit of Air & Gas Holdings P/L. ABN 14 213 772 690

- PROJECT:** *Design and construct LPG Terminal Facility
At Beenleigh, Queensland.*
- CLIENT:** *Supagas (QLD) Pty Ltd*
- REFERENCE:** *14791*
- DETAILS:** *Terminal incorporates 50 tonne underground
storage tank, tanker load in/load out and cylinder
filling.*





Air & Gas Industries

A Unit of Air & Gas Holdings P/L. ABN 14 213 772 690

PROJECT: *Installation of 100 tonne LP Gas Storage Vessel*

CLIENT: *Boral Gas, Coffs Harbour, New South Wales*

REFERENCE:

DETAILS: *Turn key project - supplied and installed 100 tonne LP Gas mounded storage vessel. Complete with load out facility and fire protection system.*

