



PROCESS ENGINEER

JOB & PERSON SPECIFICATION

JUNE 2019

ROLE TITLE: Process Engineer

REPORTS TO: Head of Asset Management

ORGANISATIONAL OVERVIEW:

Our Core Purpose:

Bringing energy to the community

Our Vision, or 'Ideal'

Best Infrastructure company linking Australia

Our Culture – we aspire to:

- *Be creative, think beyond*
- *Be brave, speak up*
- *Be a team, deliver together*
- *Be mindful, we care*

SEA Gas is a gas transmission business based in Adelaide, which owns and operates the SEA Gas pipeline (connecting Port Campbell, Victoria, to Adelaide, South Australia) and the Mortlake Pipeline (connecting Iona storage facility to Mortlake, Victoria). The pipeline system delivers gas to gas fired power stations and to meet industrial, commercial and domestic needs in Adelaide, Victoria and regional centres.

The organisation manages, operates and maintains approximately 800km of high pressure natural gas pipelines, two compressor stations and receipt and delivery facilities.

FUNCTIONAL OVERVIEW:

The Process Engineer position is a two-year contract full time role that reports to the Head of Asset Management, who in turn reports to the Chief Executive Officer, and is accountable for engineering work related to Pipeline Systems. The primary focus of this role over the two-year period will be to manage a project to optimise SEA Gas alarm management.

Specifically, the role is required to deliver:

- Alarm Management and review for the pipeline system;
- Asset Change Management;
- Gas quality oversight;
- Review of metering and unaccounted for gas;
- Support for pipeline modelling for operations, commercial growth and emergency response;
- Engineering Support for Business Development projects; and
- Other technical support to remote and metropolitan facilities along a Pipeline System approximately 800km in length, as may be required.

TEAM OVERVIEW:

The purpose of the Engineering Team is to provide engineering services for Pipeline Systems:

- (a) in compliance with all SEA Gas safety and environmental policies, procedures, plans and practices;
- (b) in compliance with applicable standards and contractual, statutory and licensing requirements;
- (c) effectively and efficiently.

The work of the Engineering Team shall include:

- design calculations, scope and specification development for Pipeline System modifications, maintenance, upgrade activities and new business opportunities;
- Pipeline Integrity Management Plans and review of integrity data to recommend future actions.
- Asset Management Plans, monitoring of equipment reliability and the performance of safety critical systems and identifying sound engineering based maintenance strategies;
- investigation of faults and failures to implement effective engineering solutions;
- preparation of technical reports in accordance with licencing and regulatory requirements;
- coordination of engineering reviews in accordance with the requirements of AS 2885;
- management of third party works in the vicinity of the Pipeline Systems;
- establishing and monitoring the performance of engineering tools related to the safe and efficient operation of the Pipeline Systems; and
- development and maintenance of engineering systems.

LOCATION:	Adelaide	TOTAL NO. OF EMPLOYEES IN ORGANISATION: 40 EMPLOYEES IN BUSINESS UNIT: 11
▪		
<p>ROLE ACCOUNTABILITIES</p> <p>Alarm Management and Review</p> <ul style="list-style-type: none"> ▪ Be responsible for ensuring a consistent alarm philosophy across SEA Gas sites that meets industry best practice; ▪ Identify areas where alarms or alarm set points require modification to achieve consistency with the approved alarming philosophy and undertake change management to achieve a consistent approach; ▪ Undertake regular reviews of alarm reports and make recommendations to optimise alarm management; and ▪ Support SEA Gas Operations Team on the continuous improvement of the alarm management plan and supporting data. <p>Process Control and Gas Quality Management</p> <ul style="list-style-type: none"> ▪ Be responsible for maintaining the Pipeline Gas Quality Management Plan; ▪ Monitor gas quality for material changes with the potential to impact pipeline design; ▪ Investigate and report on 'unaccounted for gas' on the pipeline systems; ▪ Investigate potential metering errors; ▪ Monitor and report on pipeline process control and make recommendations for performance improvement. <p>Pipeline modelling</p> <ul style="list-style-type: none"> ▪ Support the development and maintenance of steady state and transient models for the SEA Gas operating pipeline systems; ▪ Provide technical support through pipeline modelling to investigate opportunities for new commercial services; ▪ Provide technical support through pipeline modelling to support business growth opportunities on the pipeline system; and ▪ Maintain a series of models to support SEA Gas Emergency Response capability. 	<p>Engineering Support for Business Development</p> <ul style="list-style-type: none"> ▪ Support feasibility studies for new business opportunities; and ▪ Provide principal's support for Front End Engineering Design (FEED) studies. <p>Pipeline Operations and Maintenance Support</p> <ul style="list-style-type: none"> ▪ To provide engineering support (including calculations, scope and specifications for design modifications, as required) for maintenance and field based activities; ▪ To ensure that engineering drawings associated with the Pipeline Systems are effectively managed; ▪ To assess and implement changes to pipeline systems in accordance with change management procedures; ▪ To be responsible for the efficient and effective management of contracted engineering or other services, as required; ▪ To identify and implement effective engineering solutions to technical issues as they arise from time to time; ▪ To assist in the establishment of engineering tools related to the safe and efficient operation of Pipeline Systems; ▪ To assist in the production, presentation and control of the Budget as it relates to areas of responsibility; ▪ To provide timely and relevant reports on all matters within the role; and ▪ To monitor developments in the pipeline industry and report, formulate and propose strategies for best practice operation. <p>Impact of Decision Making</p> <ul style="list-style-type: none"> ▪ The Process Engineer is required to make technical decisions regarding both capacity and integrity of the Pipeline System, to provide input into the engineering design of significant infrastructure and to ensure all technical regulatory requirements are met. 	
DIRECT REPORTS: Nil	SERVICE PROVIDER CONTRACTS UNDER MANAGEMENT: 0-2	
<p>KEY WORKING RELATIONSHIPS</p> <p>Internal</p> <ul style="list-style-type: none"> ▪ Head of Asset Management ▪ SCADA and OT Coordinator ▪ Operations Team ▪ Engineering Team ▪ HSE Manager ▪ Commercial Team ▪ Finance Team 	<p>External</p> <ul style="list-style-type: none"> ▪ Engineering Consultants ▪ Specialist Service Providers ▪ Contractors ▪ Suppliers 	
OPERATIONAL AND STAY IN BUSINESS CAPITAL EXPENDITURE BUDGET: N/A		

FUNCTIONAL ACCOUNTABILITIES

1. STRATEGIC	<ul style="list-style-type: none"> ▪ Provide accurate information on which informed business decisions will be made. ▪ Provide Engineering and analysis and insights to the business. ▪ Identify and table new ways of improving safety and efficiency
2. FINANCIAL	<ul style="list-style-type: none"> ▪ Adhere to all internal financial processes, delegations of authority and policies including approvals and processing procedures. ▪ Ensure expenditure under control is optimised to contribute to maximisation of business profit. ▪ Play an active role in developing and monitoring the engineering budget.
3. PEOPLE	<ul style="list-style-type: none"> ▪ Drive effective communication with both internal and external stakeholders.
4. CUSTOMER	<ul style="list-style-type: none"> ▪ Develop effective and proactive working relationships with all internal clients ▪ Ensure internal client offerings meet and/or exceed customer needs and manage expectations ▪ Develop professional relationships with external stakeholders as required ▪ Contribute to high levels of internal customer satisfaction
5. SYSTEMS / PROCESSES	<ul style="list-style-type: none"> ▪ Comply with and oversee the delivery of the required business outcomes. ▪ Contribute to development and improvement of alarm management and systems to drive efficiency.
6. STAKEHOLDER MANAGEMENT	<ul style="list-style-type: none"> ▪ Manage relevant stakeholder issues and concerns proactively. ▪ Maintain the good reputation of SEA Gas. ▪ Develop strong intra-business relationships and understanding to facilitate effective internal partnering.
7. HEALTH, SAFETY & ENVIRONMENT (HSE)	<ul style="list-style-type: none"> ▪ Comply with all HS&E policies, procedures and practices as articulated in the SEA Gas HSE system. ▪ Actively promote and lead the safety effort through personal involvement and leadership. ▪ Comply with section HS&E reporting. ▪ Support and Implement HS&E initiatives and processes within Engineering and contribute to business implementation.

PERSON SPECIFICATIONS

TECHNICAL / PROFESSIONAL EXPERTISE Requisite Skills and Experience	Requisite Experience & Qualifications (Essential & Preferred)
<p>Technical</p> <ul style="list-style-type: none"> ▪ A solid understanding of the main aspects of pipeline construction, operation and maintenance including gas analysis, metering, compression and gas principals. ▪ Familiarity with AS 2885.3 and key concepts required for compliance; ▪ Demonstrated ability in the application of Australian Standards, codes and legislation within industry; ▪ Experience in Risk Management & leading HAZOPS / CHAZOP studies; ▪ Ability to utilise SCADA to obtain information; ▪ Experience in alarm management; ▪ An understanding of the design, calibration and maintenance of fiscal metering systems; ▪ An understanding of the principles of pressure control systems and over-pressure protection systems, as relate to the safe operation of pipelines; ▪ Understanding of pipeline transient modelling (preferred); ▪ Experience managing engineering changes and continuous improvement; ▪ Demonstrated analytical and diagnostic skills; ▪ Ability to recognise issues, conduct Root Cause Analyses and implement corrective actions; ▪ Demonstrated understanding and experience with health and safety in a field and office environment; ▪ Experience in incident investigation; <p>Personal</p> <ul style="list-style-type: none"> ▪ Experience with report writing to the level of senior engineer; ▪ Experience with writing justifications and funding requests; ▪ Demonstrated strong oral communication skills; ▪ High level time management; ▪ Ability to manage difficult situations and multiple demands; ▪ Ability to interact professionally with peers, colleagues and both internal and external stakeholders; ▪ Demonstrated high level of computer literacy (inc. Microsoft Office and relevant technical software); ▪ Experience managing change and continuous improvement; 	<ul style="list-style-type: none"> ▪ Previous oil and gas or pipeline operation experience (minimum 5 years) ▪ Chemical Engineering qualifications enabling membership of the institute of Engineers Australia (Essential); ▪ CP Engineering (Preferred); and ▪ Current Driver's Licence

CORE BEHAVIOURS

1. Commitment to Safety
 - Observes & practises safe & environmentally acceptable work methods.
 - Maintains awareness of changes to safety policies & procedures.
 - Contributes positively to a safe and fair work environment.
2. Ethics & Values
 - Encourages alignment and disapproves of unaligned behaviours.
 - Makes ethically sound decisions.
 - Is regarded as open and honest in all dealings.
3. Teamwork and Communication
 - Communicates clearly, accurately and persuasively.
 - Shares information openly with the team, listening to and inviting views of others.
 - Cultivates productive working relationships across teams.
 - Develops rapport and trust with colleagues and customers.
4. Customer Focus
 - Identifies and understands customer needs (internal and external).
 - Takes personal responsibility for delivering customer service standards.
 - Strives for continuous improvement in service delivery.
5. Commercial Orientation
 - Understands the commercial drivers of the business.
 - Makes decisions based on/in consideration of commercial and financial impact.
6. Results Focus
 - Strives to improve personal & business performance.
 - Demonstrates commitment to company objectives.
 - Uses initiative to problem solve and sees tasks through to completion.
 - Follows through on commitments made, taking responsibility for own actions.
7. Adaptability
 - Demonstrates a flexible approach to change.
 - Generates, promotes and supports the implementation of new ideas/approaches.
 - Adapts quickly and effectively to changing demands.
8. Living our Aspirations
 - Demonstrates behaviour consistent with our cultural aspirations:
 - Be creative, think beyond
 - Be brave, speak up
 - Be a team, deliver together
 - Be mindful, we care



HOW TO APPLY

Applications should be addressed to Andrew Reed. Please visit henderconsulting.com.au to apply.

For a confidential discussion, please call Lucy Dinnison-Mitchell or Christian Gaszner on (08) 8100 8827.

Please Note

Your application will be automatically acknowledged by a return email.
