



JOB & PERSON SPECIFICATION

Name		Job Title	Senior Pipe Stress Engineer
Function Management	Head of Department	Line Management	Head of Department
Department	Piping		
People Management	Pipe Stress Engineers		
Role Summary			
Responsible for performing piping flexibility analysis, reviewing and finalising pipe and support design / layout and the arrangements, code calculations and originate and checking Piping stress deliverables.			
Work Environment			
<ul style="list-style-type: none"> Office based, Sitting, Computer use, Offshore visits, take flights/travel to other locations 			
Responsibilities			
<ul style="list-style-type: none"> Implementation of QA/QC procedures as required by Company and Client standards Responsible for performing Piping Stress Analysis (static and dynamic) for A/G and U/G lines and finalising the stress documentation Finalising stress analysis design basis, critical line list, work procedure, data sheets, support specification / standards Review and checking of third-party analysis Responsible for planning and scheduling of Stress Deliverables Qualification of Standard Piping support details including design calculation and verification of loads Finalising Material Requisition, Datasheets and TBE for brought out items (specialty supports, spring hangers etc.) Review and approval of Vendor drawings and documents Review / approval of construction related deliverables submitted by Contractor Co-ordination with Piping Engineers and Designers Co-ordination with other disciplines / departments as required for interfaces Co-ordination with Piping counterparts in Client/Contractor organisations Site visits and data collection from Client's offices / plants Attend meetings with Clients/ Contractors/ Vendors Identification of scope of work required to undertake a project / job and estimation of deliverables Input to project plans and schedules Immediate identification to Lead Engineer of any issue that has the potential to cause change or growth to any area of the project or study, in comparison to the original design intent / deliverables required Production of cost effective engineering solutions that are fit for purpose, safe and add value to both PD&MS and the Client Ensuring operational and maintenance issues are addressed in the design, seeking input from operations and maintenance personnel Monitoring progress of work and achieving completion within the agreed schedule and budget Production and checking of documents and stress analysis engineering design deliverables Review of documents circulated by other disciplines for IDC or comment Attendance at meetings called by Project Manager / Engineer, e.g. kick-off meeting, progress meeting 			

- Attendance at Design Reviews, HAZOPs, Constructability Assessments etc.
- Representation of PD&MS with Clients, Suppliers / Vendors and Certifying Authorities in a professional manner
- Remain up to date with technical developments, client, national and international standards and legislative requirements related to the position
- Ensure compliance with applicable Industry Codes and Standards, HSE Alerts, Statutory Instruments, Client and PD&MS Specifications and Legislative Requirements and establishing order of precedence on a project-by-project basis
- Ensure all supervised personnel are aware of continuous improvement issues of new technology
- Responsible for ensuring professional development is maintained and identified competency requirements are undertaken in a timely manner
- Adherence to the company integrated management system
- Compliance with quality assurance, health and safety and environmental policies
- Demonstrate and promote PD&MS QHSE principles and lead by example
- Ensure unsafe activities are challenged
- Adherence to the requirements of the best practice standards recommendations and processes in the undertaking of duties, in particular, risk assessment and control, reliability and failure prevention necessary to ensure the safe design, provision and use of tools, equipment and systems
- Demonstrate and promote PD&MS values and lead by example
- Ensure direct report performance reviews are carried out within the required timescales (where applicable)

Authorities

- Authorised to produce and sign engineering design deliverables as being engineering checked

Skills & Attributes

- Team working
- Customer and quality focused
- Professional conduct
- Excellent communication, influencing and inter-personal skills
- Ability to use own initiative
- Good organisational skills
- Commercial awareness
- Responsive to business and client needs
- Safety aware

Competency Standards	M / P	Y / N / CE	Details
BSc or equivalent in relevant Engineering Discipline	M		
Chartered Engineer status	P		
Significant, demonstrable experience in Stress Analysis Detailed Design Engineering and Engineering Checking	M		
Understanding of all Engineering disciplines	M		
Thorough knowledge and understanding of relevant Oil & Gas Industry Codes and Standards	M		
Highly competent in the use of Intergraph Caesar II Pipe Stress Analysis products	M		
Demonstrable experience in Static and Dynamic Analysis	M		



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Understanding of Piping Layout, Materials and Specifications	M		
Competent in the use of MS Office applications	M		
Experience in managing and developing others	M		
Excellent written and spoken English	M		
M – Mandatory	P – Preferred	CE – Competency Evaluation	