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POSITION TITLE

Mechanical Reliability Engineer

LOCATION

Joffre/Red Deer, Alberta

POSITION OVERVIEW

This position will provide Mechanical Reliability support to the Olefins and Manufacturing Infrastructure facilities at the Joffre site. This role contributes to achieving and maintaining 1st quartile performance in asset utilization (uptime & quality), function-to-design, and maintenance costs. The successful incumbent will be responsible to deliver results in 4 key areas:

RESPONSIBILITIES:

Unit Reliability

The incumbent will identify, develop and execute approved Reliability improvement initiatives including:

- Working with Maintenance, Operations, Plant and Capital Engineering teams to identify and resolve approaches to unit mechanical reliability priorities
- Lead & manage a Reliability Project Portfolio for the definition, measurement, analysis, improvement and control of approved initiatives
- Review and input to unit outages and major turnaround scopes
- Lead and/or participate in the use of analytical tools to ensure optimal practices are applied to mechanical manufacturing assets utilizing Reliability Engineering methods such as RCM, RCFA, FMEA, Crow – AMSAA plots, Weibull analysis, RAM modeling etc.
- Identify and implement equipment strategies including the selection of technologies for preventive and predictive (PPdM) programs. This includes preparing PM plans based on the NOVA Reliability Systems Standard
- Ensure the Computerized Maintenance Management System (SAP modules, etc) are in alignment with equipment strategies and FMEA templates
- Apply/sustain/improve NOVA Reliability Systems Standards
- Apply Lean Sigma/Six Sigma fundamentals to equipment reliability
- Review new equipment designs to ensure maintenance and reliability issues are considered and addressed. Develop reliability requirements for new equipment and repaired equipment
- Benchmark internally and externally to identify and share best practices
- Optimize equipment spare parts and predictive/preventative maintenance practices to ensure required reliability at lowest cost

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Unit Support

The incumbent will also provide technical support to Plant Work Teams, Operations and Maintenance for critical issues, including:

- Plant trips, capacity limitations, etc
- Technology application
- Equipment specification & changes
- Troubleshooting
- Mentorship
- Highlight and address maintenance, operational, and engineering practices that negatively impact reliability
- Follow-up (direct technical support or lead focus teams) on equipment failures, determine root causes and identify actions to prevent reoccurrence.

Projects

- Provide project design and management for Mechanical projects as required
- Apply "reliability-in-design" focus to PD&I process including project justification, technical direction/specification, spare parts assessments and auditing of project reliability deliverables (e.g. PM's, spare parts etc.)

Reliability Systems

- Ensure alignment and contribution to corporate reliability standards
- Ensure consistent application of Reliability tools and processes across the Joffre site
- Provide effective connection to Unit Discipline Teams through education and application of Reliability Systems & Processes

REQUIRED EDUCATION & EXPERIENCE:

- B.Sc. in Mechanical Engineering with a minimum of eight years of related engineering experience. APEGGA certification is required, preferably currently registered as a Professional Engineer
- Ability to work independently and manage your own workload with minimal supervision, managing multiple projects and tasks in a dynamic work environment
- Good interpersonal and communication skills
- Demonstrated ability to work effectively with Operations, Maintenance, and Technical teams

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- Ability to offer practical solutions to problems in a timely manner
- Applied knowledge of design and maintenance of pressure vessels and heat exchangers, piping, and other pressure components. A working knowledge of ASME and API codes would be considered an asset
- Familiar with codes and regulations of safety that must be met to own, operate and maintain pressure equipment
- Demonstrated ability to use Reliability tools an asset. E.g. RCFA facilitation, RCM participation, Lean or Six sigma training, Growth analysis etc
- Working knowledge of predictive/preventative maintenance tools/practices and inspection techniques
- Demonstrated strong willingness to take initiative and a self-directed worker, able to positively lead and influence various teams
- Demonstrated decision making and strong problem solving skills

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