

IO2088 Pressure Equipment Engineer TCWS-040

General information

Job category	Standard
Status	Published
Department	PED / Plant Engineering Department
Division	PED / Tokamak Cooling Water System Division
Section	PED / TCWS / Tokamak Cooling Water System Design Section

Job description

Main job	Engineering - Mechanics
Title of the position	Pressure Equipment Engineer TCWS-040
Job family	Engineer - 1
Grade	P2
Direct employment	Not required
Purpose	<p>To provide engineering support during the procurement, manufacturing, installation, testing and commissioning of the Tokamak Cooling Water System (TCWS) Equipment;</p> <p>To be part of the TCWS Project Team and to integrate on-site activities, in close collaboration with the Construction Department and Construction Management as Agent (CMA).</p>
Main duties / Responsibilities	<p>Reviews all technical deliverables (e. g. stress reports, drawings, Manufacturing Inspection Plans) received from the TCWS Equipment suppliers;</p> <p>Assesses Supplier Deviation Requests and Non-Conformities with the aim of finding the best technical and cost effective solutions;</p> <p>Performs and reviews structural analyses related to TCWS equipment, supports and supporting structures;</p> <p>Develops and reviews detailed drawings for piping, equipment and supports and supporting structures;</p> <p>Collaborates with CAD designers to make sure that the TCWS layout is compliant with the requirements and interfacing systems;</p> <p>Collaborates with process engineers to make sure that process requirements are correctly implemented in the structural reports;</p> <p>Participates in the inspection and testing/commissioning of the TCWS and reviews associated reports;</p> <p>Supports the pre-assembly of the TCWS and assesses in real time proposed modifications coming from on-site requirements or similar (e. g. modifications during commissioning);</p> <p>Supports the elaboration of the installation sequence of the TCWS;</p> <p>Coordinates technical interfaces between TCWS PT and all other internal/external stakeholders;</p> <p>Assures consistency amongst the mechanical and piping systems in the installation phase and the engineering work packages issued by the engineering departments;</p> <p>Implements the technical control of the Protection Important Activities, as well as their propagation to the entire supply chain;</p> <p>May be required to work outside normal working hours, including nights, weekends and public holidays;</p> <p>May be requested to be part of any of the project/construction teams and to perform other duties;</p> <p>Reports to the TCWS Design Section Leader;</p> <p>Acts as an interface with other internal and external resources for the installation activities for all Balance of Plant Areas.</p>
Measures of effectiveness	<p>Develops/reviews detailed designs of equipment and supporting structures in a timely manner;</p> <p>Issues/review structural reports drawings in a timely manner and to a high quality;</p> <p>Assesses proposed in-field changes in a timely manner;</p> <p>Manages effectively the interfaces associated with his/her scope of activities;</p> <p>Contributes effectively in ensuring the satisfaction of safety and functional requirements flow-down.</p>

Applicant criteria

Level of study	Master or equivalent degree
Diploma	Mechanical or Nuclear Engineering
Level of experience	At least 5 years
Technical experience/knowledge	<p>At least 5 years of experience in the design of nuclear pressurized equipment (heat exchangers, tanks, pressurizers);</p> <p>Knowledge of international mechanical components and piping systems standards illustrated by proven experience in Quality Assurance/Quality Control procedures for the installation, commissioning and operation of mechanical components and piping systems, including safety relevant components;</p> <p>Good experience in and knowledge of structural supports systems design and steel structures construction as well as fixation systems for nuclear plants;</p> <p>Proven experience in the fabrication follow up of large and complex systems for nuclear plants or oil and gas sectors;</p> <p>Experience in implementing French ESP/ESPN regulations and their practical application will be considered advantageous;</p> <p>Proven experience in managing a Notified Body/Agreed Notified Body will be considered an advantage;</p> <p>Experience in real time analyses of in-field changes.</p> <p>Collaborate: Ability to dialogue with a wide variety of contributors and stakeholders;</p> <p>Communicate Effectively: Ability to adjust communication content and style to deliver messages to work effectively in a multi-cultural environment;</p>
General skills	<p>Drive results: Ability to persist in the face of challenges to meet deadlines with high standards;</p> <p>Manage Complexity: Ability to gather multiple and diverse sources of information to understand problems accurately before moving to proposals/solutions;.</p> <p>Instill trust: Ability to apply high standards of team mindset, trust, excellence, loyalty and integrity.</p>
Languages	English (Fluent)
Others	<p>Master's Degree or equivalent in Mechanical or Nuclear Engineering with competencies in equipment detailed mechanical design;</p> <p>Extensive experience in similar jobs (involving similar work responsibilities) and/or additional training certificates in relevant domains may be considered a reasonable substitute for the required educational degree.</p> <p>Knowledge of Microsoft Office standard (Word, Excel, PowerPoint, Outlook) is required;</p> <p>Knowledge of 2D-3D CAD software (AVEVA PDMS, Intergraph Smartplant or Catia) is appreciated.</p> <p>Knowledge of structural analysis software (e. g. Ansys, GTStrudl, etc.)</p>