

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