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JOB DETAIL

Ref. IO2088 - 2/28/2019

Pressure Equipment Engineer TCWS-040

Main job	Mechanics
Department	PED / Plant Engineering Department
Division	PED / Tokamak Cooling Water System Division
Section	PED / TCWS / Tokamak Cooling Water System Design Section
Job Family	Engineer - 1
Application Deadline (MM/DD/YYYY)	04/14/2019
Grade	P2
Direct employment	Not required
Purpose	To provide engineering support during the procurement, manufacturing, installation, testing and commissioning of the Tokamak Cooling Water System (TCWS) Equipment; 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).
Main duties / Responsibilities	Reviews all technical deliverables (e. g. stress reports, drawings, Manufacturing Inspection Plans) received from the TCWS Equipment suppliers; Assesses Supplier Deviation Requests and Non-Conformities with the aim of finding the best technical and cost effective solutions; Performs and reviews structural analyses related to TCWS equipment, supports and supporting structures; Develops and reviews detailed drawings for piping, equipment and supports and supporting structures; Collaborates with CAD designers to make sure that the TCWS layout is compliant with the requirements and interfacing systems; Collaborates with process engineers to make sure that process requirements are correctly implemented in the structural reports; Participates in the inspection and testing/commissioning of the TCWS and reviews associated reports; 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); Supports the elaboration of the installation sequence of the TCWS; Coordinates technical interfaces between TCWS PT and all other internal/external stakeholders; Assures consistency amongst the mechanical and piping systems in the installation phase and the engineering work packages issued by the engineering departments; Implements the technical control of the Protection Important Activities, as well as their propagation to the entire supply chain; May be required to work outside normal working hours, including nights, weekends and public holidays; May be requested to be part of any of the project/construction teams and to perform other duties; Reports to the TCWS Design Section Leader; Acts as an interface with other internal and external resources for the installation activities for all Balance of Plant Areas.
Measures of effectiveness	Develops/reviews detailed designs of equipment and supporting structures in a timely manner; Issues/review structural reports drawings in a timely manner and to a high quality; Assesses proposed in-field changes in a timely manner; Manages effectively the interfaces associated with his/her scope of activities; Contributes effectively in ensuring the satisfaction of safety and functional requirements flow-down.
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

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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.

General skills 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;
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.

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.)

Languages English (Fluent)

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