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JOB DETAIL

Ref. IO2072 - 1/17/2019

Nuclear Engineer - Pressure Equipment TED-080&173

Main job Nuclear Power

Department TED / Tokamak Engineering Department

Division TED / Internal Components Division

Section TED / INC / Tritium Breeding Blanket Systems Section

Job Family Engineer - 2

**Application Deadline
(MM/DD/YYYY)** 03/03/2019

Grade P3

Direct employment Not required

Purpose Two openings

To support the design, procurement, manufacturing, pre-assembly, assembly and final proof testing of the Test Blanket System's (TBS) Connection Pipes (CPs) of the coolant systems and tritium circuits in compliance with the relevant French regulations, whilst ensuring efficient management of the interfaces with the IO construction team.

To support the conformity assessment of the pressure and nuclear pressure equipment in addition to the demonstration of compliance of all equipment;
To be accountable for contract follow-up of the TBS CPs, from technical specification development to component delivery, assembly and final testing of all equipment;
To manage the execution of multiple contracts to manufacture nuclear mechanical structures and pressure and nuclear pressure equipment.

Main duties / Responsibilities Supports the final design development of the TBS CPs from the point of view of the plant aspects;
Ensures compliance with the safety defined requirements and follows up with the associated licensing procedures;
Monitors the manufacturing activities of the TBS CPs and associated components and verifies the compliance with the relevant French regulations for Non-Nuclear & Nuclear Pressure Equipment and selected codes and standards;
Contributes to the preparation of the documentation required for the on-site assembly of the connections pipes and interfaces with the construction team accordingly;
Follows-up the manufacturing process by reviewing all supplier documentation and drawings, integrating updates from design/site construction, attending manufacturing hold points, coordinating between the Agreed Notified Body (ANB), the supplier and the ITER Nuclear-Non Nuclear Pressure Equipment Network, supporting the management of supplier Deviation Requests (DRs), etc.;
Participates in resolving plant issues that occur during in-field installation;
Monitors contracts performance, schedule, and cost; and control changes to the best interest of the project;
Prepares both Manufacturing Readiness Reviews and Delivery Readiness Reviews and subsequently makes sure that all identified issues are resolved in a timely manner;
Ensures consistency amongst the mechanical and piping systems during the installation phase and in terms of the engineering work packages issued by engineering departments;
Analyzes risk and propose risk management strategies to continually update the risk register in relation of the TBS CPs;
May be required to work outside normal working hours, including nights, weekends and public holidays;
Performs other duties in support of the project schedule;
May be requested to be part of any of the project/construction teams and to perform other duties;

Measures of effectiveness Maintains a strong commitment to the implementation and perpetuation of the ITER Safety Program, ITER Values (Trust; Loyalty; Integrity; Excellence; Team mind set; Diversity and Inclusiveness) and Code of Conduct.

Reports to the Tritium Breeding Blanket Systems Section Leader;

Contributes efficiently to the required activities for the TBS CPs design, manufacturing, assembly and final testing;
Ensures Safety compliance for delivered components;
Generates and maintains coherent, comprehensive and understandable design documentation;
Establishes and maintains effective co-ordination of TBM-

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related activities and interfaces management, monitoring and following-up properly non-conformities;
Establishes appropriate Quality Assurance and Quality Control procedures for TBM-related activities under the responsibility of the ITER Organization;
Succeeds in attaining required milestones, costs and schedules concerning the relevant design and procurement activities.

SAP Id: 50000714

Level of study	Master or equivalent degree
Diploma	Mechanical or Nuclear Engineering
Level of experience	At least 8 years
Technical experience/knowledge	At least 8 years' experience in the design of nuclear plant systems and components; Good knowledge of the design and fabrication of nuclear pressure equipment; Ability to write procurement technical specifications for mechanical equipment; Good knowledge of construction , project and contract management; Good knowledge of the European Directive for pressure equipment (PED) and French nuclear pressure regulation (ESPN Ministerial Order) would be advantageous; Experience in pressure piping design in a nuclear environment would be advantageous; Advanced knowledge of pressure equipment codes and standards such as EN & ASME would be beneficial; Experience in Nuclear Safety & procedures associated with preparing design analyses and documentation for nuclear facility; Expertise in technology aspects in design, construction and operation of high-temperature high-pressure piping & systems is preferred. Knowledge of Nuclear plant designs and associated balance of plant.
General skills	The required education degree may be substituted by extensive professional experience involving similar work responsibilities and/or additional training certificates in relevant domains. 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 with high level of reliability and autonomy; Manage Complexity: Ability to gather multiple and diverse sources of information to define problems accurately will the ability to set priorities and meet deadlines before moving to proposals; Instill trust: Ability to apply high standards of team mindset, trust, excellence, loyalty and integrity.
Others	Good command of MS Office standard (Word, Excel, PowerPoint, Outlook); Basic knowledge of AVEVA (E3D), CATIA V5 CAD software would be an asset.
Languages	English (Fluent)

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