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JOB DETAIL

Ref. IO2066 - 1/10/2019

Mechanical Engineer - Pressure Equipment TED-028

Main job Mechanics

Department TED / Tokamak Engineering Department

Division TED / Vessel Division

Job Family Engineer - 2

Application Deadline
(MM/DD/YYYY) 02/24/2019

Grade P3

Direct employment Not required

Purpose To undertake procurement activities associated with the Vacuum Vessel (VV) for the areas of In Service Inspection, Operational Instrumentation and Lower Penetrations;
To supervise the engineering activities related to said procurement arrangements of the VV and the Ports;
To develop procedures for the assembly of the Vacuum Vessel, collaborating closely with the Construction Department (CST) and the "Construction Management as Agent" (CMA).

Main duties / Responsibilities Follows up activities in terms of the engineering, manufacturing and acceptance tests of components;
Is responsible for engineering matters related to the VV procurement arrangements for Vacuum Vessel Sectors, Ports and Gravity Supports: including follow up and management of design changes, non-conformities and engineering support for acceptance tests;
Evaluates compliance of designs with codes (such as RCC-MR, ASME etc.);
Performs detailed checking on the assembly strategy, tolerance allocation and dimensional inspection documentation of as built components;
Develops engineering and construction work packages for the assembly of the Vacuum Vessel and the Ports, including the definition of assembly requirements, Bill of Materials and assembly drawings;
Identifies and resolves non-conformance and open points in the construction process;
Fixes process interfaces between components or systems and tools;
Controls and confirms input data to Tokamak Construction Contractors with the CMA;
Reviews installation work packages as prepared by the CMA and Tokamak Assembly contractors;
Liaises with ITER's Quality Management Division (QMD) for the implementation of Quality Assurance (QA) ;
May be required to work outside ITER Organization reference 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 in support of the project schedule;
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.

Under the supervision of the Vacuum Vessel Group Leader, reports to the Vessel Division Head.

Measures of effectiveness Efficiently contributes to the procurement activities of the VV systems and/or components in a timely manner and within defined costs;
Supports the oversight of VV fabrication, coordination and communication with CMA and the relevant Domestic Agencies (DAs);
Meets the final tolerances of the Vacuum Vessel;
Generates and maintains coherent, comprehensive, and understandable documentation;
Takes initiative to fix issues and process interfaces of the design and manufacturing of the VV at the ITER Organization;
Coordinates and communicates well with colleagues within the IO and DAs;
Performs activities related to the Project Construction Team in a safe, accurate and timely manner.

ID SAP: 50003755

Level of study Master or equivalent degree

Diploma Mechanical or Material Engineering

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| Level of experience | At least 8 years |
| Technical experience/knowledge | <p>At least 8 years' experience in the design, procurement and manufacturing supervision of components for nuclear pressure equipment and/or pressure equipment; Experience applying the RCC-MR/RCC-M or ASME codes to pressure equipment; Industrial experience in the fabrication of stainless steel structures including material procurement and tolerance control or similar activities; Experience implementing requirements related to the French Regulation for Pressure and Nuclear Pressure Equipment, including Conformity Assessments of Nuclear Pressure Equipment would be considered advantageous; Expertise in Geometric Dimension and Tolerance and Metrology is considered advantageous;</p> <p>The required education degree may be substituted by extensive professional experience involving similar work responsibilities and/or additional training certificates in relevant domains.</p> |
| Specific skills | CATIA Computer Aided Design |
| General skills | <p>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 define problems accurately before moving to proposals; Instill trust: Ability to apply high standards of team mindset, trust, excellence, loyalty and integrity.</p> |
| Others | Good command of the Microsoft Office package; Experience of CAD models and drawings with CATIA (or equivalent). |
| Languages | English (Fluent) |

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