


JOB DETAIL

Ref. IO1549 - 6/19/2015

Non-Destructive Testing Engineer TED-010

Main job	Mechanics
Department	TED / Tokamak Engineering Department
Division	TED / Vessel Division
Section	TED / VV / VV/Ports & Thermal Shield Section
Job Family	Engineer - 2
Application Deadline (MM/DD/YYYY)	07/14/2015
Grade	P3
Direct employment	Not required
Purpose	To support the activities related to the procurement of the Vacuum Vessel (VV) components and supervise the manufacturing of VV Sectors and Ports with an emphasis to the RCC-MR (and/or RCC-MX) code compliance and reporting. This also includes Non-Destructive Testing (NDT) and implementing other requirements related to the French Regulations for Pressure and Nuclear Pressure Equipment.
Main duties / Responsibilities	<p>Supports the Responsible Officers to monitor and follow up the Procurement Arrangements signed with the Domestic Agencies (DA) for the fabrication and final delivery of the VV Sectors and Ports and other components, as required;</p> <p>Performs detailed checking of NDT procedures, submitted by the DAs or contractor; emphasis will be on compliance with RCC-MR code and technical specifications;</p> <p>Inspects qualifications of NDT including Visual Tests (VT), Ultrasonic Tests (UT), Radiographic Tests (RT) and possible application of linear accelerators in accordance with the RCC-MR code and reviews related reports;</p> <p>Monitors the NDT feasibility prior to start the manufacture of the VV Sectors and Ports in order to insure a full NDT examination;</p> <p>Monitors the NDT operations done during the fabrication of components for the VV Sectors and Ports built according to RCC-MR code and is also responsible for reviewing NDT reports;</p> <p>Performs routing monitoring activities, such as day-by-day interactions with the DAs and their suppliers, organizes regular progress and dedicated meetings, performs routine and unscheduled inspections at the supplier's premises and witnesses intermediate and final acceptance tests;</p> <p>Implements all NDT requirements dictated by the Agreed Notified Body and related to the French Regulations for Pressure and Nuclear Pressure Equipment;</p> <p>Liaises with ITER Quality Assurance &amp; Assessment Division (QAA) for the implementation of QA requirements on the VV components;</p> <p>Supports preparation for the assembly of the VV components and interfaces with the Machine Assembly Division;</p> <p>Performs other duties in support of the project schedule as described in the Detailed Work Schedule and the Strategic Management Plan &amp; upon management request;</p>
Measures of effectiveness	<p>May be requested to belong to any project team dealing with above activities and perform other duties upon management request;</p> <p>Maintains a strong commitment to the implementation and perpetuation of the ITER Safety Program, values and ethics.</p> <p>Reports to VV/Ports &amp;Thermal Shield Section Leader;</p> <p>Acts as an interface between all other Departments within the ITER Organization and DAs, as required;</p> <p>In response to requests from the Director-General and/or Head of Tokamak Engineering Department (TED), or proactively, informs the DG/ Head of TED of any important and urgent issues that cannot be handled by the concerned line management and may jeopardize the</p>

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achievement of the Project's objectives.

Contributes efficiently to procurement activities of VV systems and/or components in a timely manner and within defined costs;  
Supports the oversight of VV fabrication and coordination and communication with the DA;  
Generates and maintains coherent, comprehensive, and understandable documentation;  
Takes initiative to understanding the design and manufacturing at the IO and effective coordination with the IO and DA staff;  
Maintains effective communications within the ITER Organization.

Project Construction Phase

Level of study	At least Master's Degree or equivalent
Diploma	Engineering field or other relevant discipline
Level of experience	At least 8 years
Technical experience/knowledge	Non-Destructive Testing qualification level II or III in MT, RT or UT, would be considered advantageous.  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 and/or ASME codes to Pressure Equipment; Experience in fabrication (UT and other NDT methods, and welding) of complex stainless steel structures; Experience in UT phased array would be considered advantageous; Experience implementing all requirements related to the French Regulation for Pressure and Nuclear Pressure Equipment, including Conformity Assessment of Nuclear Pressure Equipment, would be considered advantageous; Basic Project Management experience is required.
Social skills	Ability to work effectively in a multi-cultural environment Ability to work in a team and to promote team spirit
Specific skills	MS Office standard (Word, Excel, PowerPoint, Outlook)
General skills	Ability to communicate clearly and write technical reports and specifications in English.
Languages	English (Fluent)