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JOB DETAIL

Ref. IO1792 - 11/18/2016

Piping Installation Engineer - CST-054

|                                   |   |
|-----------------------------------|---|
| Main job                          | Mechanics   |
| Department                        | CST / Construction Department   |
| Division                          | CST / Tokamak Assembly Section/Division   |
| Job Family                        | Engineer - 2  |
| Application Deadline (MM/DD/YYYY) | 12/29/2016  |
| Grade                             | P3  |
| Direct employment                 | Not required  |
| Purpose                           | -To plan & coordinate the pipe work and resources inside the Cryostat, and subsequent surveillance of these activities during execution.<br>-To manage interfaces and maintain related documentation.   |
| Main duties / Responsibilities    | -Is responsible for the coordination of all piping activities inside the Cryostat of the Tokamak Machine mainly focused on Helium and water supply lines for different components and systems such as Super-conducting Magnets (He at 4K), Thermal shield (He at 80K), Water cooling pipes (Primary Heat Transfer System);<br>-Liaises on all matters with technical responsible design teams for concerned components and systems;<br>-Develops a pipe installation strategy and demonstrates the assembly feasibility up to final inspection;<br>-Actively supports the setup of installation and inspection plans in accordance with ITER Quality Assurance/Quality Control (QA/QC) and nuclear safety procedures as well as vacuum handbook;<br>-Assures the qualification of processes related to pipe welding and non-destructive examination (NDE) as well as Helium (He) and water leak tightness;<br>-Manages external resources for studies and work in close collaboration with system experts, identifies mock-ups for qualification processes for the critical configurations, prepares, launches and follows mock-up processes;<br>-Supports the Construction Process Description (CPD) documentation for each Construction Work Package (CWP) including piping work, reviews the engineering work packages for piping scope, segmentation/delivery conditions, necessary assembly sequences, tooling needs, accessibility checks;<br>-Assesses pipe related change requests and performs impact assessments;<br>-Maintains the interface documentation with systems (e.g. process flow descriptions);<br>-Contributes to the identification of Protective Important Activities (PIA) for pipe welding in relation to Protection Important Components (PIC) like the ITER Vacuum Vessel (VV);<br>-Supports to a specific risk register regarding the pipe work;<br>-Performs other duties in support of the project schedule;<br>-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, values and ethics.<br><br>-Reports to Head of Tokamak Assembly Section/Division;<br>-Acts as an interface between Plant Engineering and Tokamak Engineering departments in relation to the requested pipes work...<br>-In response to requests from the Director-General and/or Head of Construction Department, or proactively, informs the DG/Head of Construction Department of any important and urgent issues that cannot be handled by the concerned line management and may jeopardize the achievement of the Project's objectives.<br><br>-Maintains effective communication and good relations   |

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within the ITER Organization and with the construction management-as-agent (CMA);  
-Elaborates, implements and maintains the Cryostat pipe installation strategy in relation to defined costs, schedule and risks;  
-Maintains accurate and updated documentation;  
-Successfully communicates & collaborates with health and safety/nuclear safety.

Project Construction Phase

|                                |  |
|--------------------------------|--|
| Level of study                 | Bachelor or equivalent degree  |
| Diploma                        | Engineering field or other relevant discipline   |
| Level of experience            | At least 8 years   |
| Technical experience/knowledge | <p>-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.</p> <p>-At least 8 years' experience (6 years with Master's degree) in nuclear and/or fusion projects;<br/>-Extensive experience of engineering aspects related to design and installation of pipes following specific codes (e.g. ASME) and standards, safety/nuclear safety aspects and quality;<br/>-Extensive experiences in execution of pipe field installation works, quality testing (e.g. NDT, Helium leak checking);<br/>-Proficient in documentation of all aspects related to assembly work;<br/>-Experience with assembly of huge and heavy components and structures would be an advantage;<br/>-Good knowledge of the specific design, construction and assembly aspects.</p> |
| Social skills                  | Ability to work effectively in a multi-cultural environment<br>Ability to work in a team and to promote team spirit  |
| Specific skills                | MS Office standard (Word, Excel, PowerPoint, Outlook)  |
| General skills                 | <p>-Large experience in on site piping work, (minimum 5 years), preferable in large plant or complex environment like nuclear industry,<br/>-Project planning &amp; management experiences are required</p> <p>-Proficient in the use of the Microsoft office suite of software<br/>-Use of a three dimensional piping program would be an asset</p>   |
| Languages                      | English (Fluent)   |

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