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JOB DETAIL

Ref. IO1694 - 4/14/2016

Feeders Mechanical Engineer TED-059

Main job	Mechanics
Department	TED / Tokamak Engineering Department
Division	TED / Magnet Division
Section	TED / MAG / Superconductor Systems & Auxiliaries Section
Job Family	Engineer - 2
Application Deadline (MM/DD/YYYY)	05/15/2016
Grade	P3
Direct employment	Not required
Purpose	<p>To monitor the Magnet Feeders procurement and assembly, including interfaces, coordination of assembly tasks, preparation of assembly documentation, management of resources, and development/implementation of quality assurance and quality control for procurement and assembly.</p> <ul style="list-style-type: none"><li>• Manages the interface design in the 3D CAD model and interface drawings;</li><li>• Assesses the assembly tolerance and tolerance mitigation, of manufacturability, and of impact to feeder functionality of changes in these;</li><li>• Assesses the structural, thermos-mechanical, and thermos-hydraulic analyses to verify the integration of Feeders assembly;</li><li>• Manages the interface control documents for the Feeder component interfaces, and coordination of responsibilities for on-site assembly between Magnet Feeders assembly team and ITER plant construction team;</li><li>• Is Responsible for planning and management of on-site assembly activities, writing Feeders assembly and inspection plans including detailed procedures with technical acceptance criteria;</li><li>• Develops assembly resource management plan and quality control plan, and contributes to development/implementation of Manufacturing Database modules for feeder assembly;</li><li>• Supervises of the on-site assembly activities to execute assembly and inspection plans;</li><li>• Provides technical support for assembly issues and manufacturing quality control to the Feeder assembly task at ITER work site and component manufacturing work at Domestic Agency (DA) contractor's site;</li></ul>
Main duties / Responsibilities	<ul style="list-style-type: none"><li>• Provides engineering assessment on components interaction with Feeders DA's assembly tooling and shipping tooling and contribution to design optimization and risk mitigation as needed;</li><li>• Monitors Feeders DA's assembly tooling qualification and contributes to the manufacturing readiness assessment;</li><li>• Coordinates assembly technicians' activity to install Feeder components, supports and instrumentation, and diagnostic wires/cables;</li><li>• Reviews Feeder-relevant, on-site assembly and inspection plans and procedures supplied by ITER assembly group and other component supplying teams;</li><li>• Assesses the interaction of Feeders component with on-site assembly tooling supplied by ITER assembly team and contributes to design improvement and risk mitigation as needed;</li><li>• Assists the Feeder Technical Responsible Officer in the execution and follow-up of on-site and DAs procurement acceptances;</li><li>• 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;</li><li>• May be requested to be part of any of the project team and performs other duties upon management request;</li><li>• Maintains a strong commitment to the implementation and perpetuation of the ITER Safety Program, values and</li></ul>

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	ethics.
	<ul style="list-style-type: none"><li>•Reports to the Superconductor Systems&amp;Auxiliaries Section Leader;</li><li>•Acts as an interface between sections in the Magnet Division and other Divisions in the Department;</li><li>•Interfaces with other Departments as required by the Feeders design, in particular with the CAD office, integration and assembly teams;</li><li>•Interfaces with the Domestic Agencies’ officers and their industries regarding fabrication as requested.</li><li>•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 achievement of the Project’s objectives</li></ul>
Measures of effectiveness	<ul style="list-style-type: none"><li>• Timely generates Feeders assembly and inspection plan and procedures, review of Feeders manufacture dossiers, and tooling design within the defined cost;</li><li>• Coordinates efficiently Feeders assembly activities;</li><li>• Generates and maintains accurate, coherent, comprehensive and understandable documentation;</li><li>• Maintains effective communication within the ITER Organization.</li></ul>
	Project Construction Phase
Level of study	At least Master's Degree or equivalent
Diploma	Mechanical Engineering or other relevant disciplin
Level of experience	At least 8 years
Technical experience/knowledge	<p>– Knowledge in structural, thermos-mechanical and thermo-hydraulic design, analysis and engineering assessment.</p> <p>–At least 8 years’ experience in design, manufacture, assembly and integration of large bolted / welded mechanical components and/or nuclear devices;</p> <p>–Practical experience in assembly work and heavy duty handling of large structure with tight tolerances;</p> <p>–Familiarity of non-destructive examination techniques such as visual inspection, dye penetrant inspection, helium leak detection, ultrasonic inspection, and radiographic examination of welds and brazes, and applicable codes and standards for the implementation and acceptance criteria;</p> <p>–Experience with international codes and standards such as ISO, EN, RCC-MR, ASTM and ASME for construction of pressure equipment and/or nuclear equipment;</p> <p>–Experience / knowledge in assembly of large components operated at cryogenic temperature and affected by high hydraulic pressure and mechanical loads.</p>
Project experience	2 to 4 years
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	<p>– Project Management knowledge are required;</p> <p>– Knowledge / experience in high voltage insulation using glass fiber reinforced composite material for cryogenic application and high voltage test of insulation is a plus;</p> <p>–Ability to both work in a team and coordinate - a group of professionals;</p> <p>–Ability to communicate clearly and write technical reports and specifications in English;</p>
Languages	English (Fluent)