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JOB DETAIL

Ref. IO1569 - 8/24/2015

Construction & Integration Engineer CIO-009

Main job	Design
Department	CIO/ Central Integration Office
Division	CIO / Design Integration Section/Division
Job Family	Engineer - 2
Application Deadline (MM/DD/YYYY)	09/20/2015
Grade	P3
Direct employment	Not required
Purpose	<p>To provide assistance to Design Integration in the area of Tokamak and in-pit. To support to the Area Manager to anticipate and solve potential issues related to the installation of major components and systems of the machine.</p> <ul style="list-style-type: none"><li>– Performs integration assessment of the interface situations between the components and systems (functional and physical);</li><li>– Monitors and controls the manufacturing of main Tokamak components in accordance to interface definition and functional tolerance requirements;</li><li>– Assesses assembly processes in an integrated manner for mechanical components on the basis of construction process documents;</li><li>– Supports the development of the assembly procurement strategy and the issuing of technical specifications;</li><li>– Ensures reliable control processes like design integration reviews, virtual reality meetings or model approval process;</li></ul>
Main duties / Responsibilities	<ul style="list-style-type: none"><li>– Assesses component tolerances on mechanical components on the basis of functional tolerance drawings in support to Deviation Request and Project Change Request;</li><li>– Ensures consistency between Process Flow Diagram/ Process and Instrumentation diagrams and components layout in the digital mock-up;</li><li>– Follows major ITER milestones and provides forecast and planning for the Tokamak Design Integration work, and also regular reports on group performance according to defined schedule;</li><li>– Manages volume reservations inside Cryostat (configuration management process ) under consideration of special needs for man access and tooling during installation and maintenance;</li><li>– Supporting of meeting preparation and post processes (writing actions, reports, CAD model approval forms (CMAF) and other configuration management related documentation);</li><li>– Performs other duties in support of the project schedule as described in the Detailed Work Schedule or Strategic Management Plan;</li><li>– May be requested to be part of any of the project team dealing with the above activities and perform other duties upon management request;</li><li>– Maintains a strong commitment to the implementation and perpetuation of the ITER Safety Program, values and ethics.</li></ul> <ul style="list-style-type: none"><li>– Under the coordination of the Area Manager for Tokamak &amp; in-pit, reports to the Design Integration Section / Division Head.</li><li>– Interfaces closely with the Construction Department,</li></ul>

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My job alert

	<p>Tokamak Engineering Department and other ITER Departments and Project Teams, to ensure interface and requirements consistency;</p> <ul style="list-style-type: none"><li>– Interacts with the technical responsible persons for the components within IO and Domestic Agencies for all matters relating to Tokamak Integration;</li><li>– In response to requests from the Director-General and/or Integration Office (CIO) Head, or proactively, informs the DG/CIO Head 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>– Develops/reviews appropriate and understandable Construction Process documents compliant with Assembly processes and requirements;</li><li>– Review and Complete Construction work packages in an exhaustive manner with respect to interface definition;</li><li>– Enhances in an exhaustive manner the definition of the Tokamak configuration (e.g. all tokamak volumes and interfaces between systems);</li><li>– Complete Assembly procurement activities in a timely manner;</li><li>– Manages and resolves interface issues following deviation requests or non-conformity reports during the whole construction and commissioning phase of the Tokamak.</li></ul>
	Project Construction Phase
Level of study	Master or equivalent degree
Diploma	Mechanical Engineering field or other
Level of experience	At least 8 years
Technical experience/knowledge	<p>Knowledge of basic mechanical &amp; piping assembly technologies;</p> <p>Knowledge about rules of Configuration Control management;</p> <p>At least 8 years' experience covering the following topics:</p> <ul style="list-style-type: none"><li>o Integration of large projects scientific and/or nuclear projects, involving large components and structures would be an advantage; Evaluation of interfaces, creation of related interface actions and follow up until resolution;</li><li>o Coordination between different interface partners and maintain the communication;</li><li>o Specific design, construction and assembly aspects of Tokamak systems should be highly advantageous.</li></ul>
Social skills	<p>Ability to work effectively in a multi-cultural environment</p> <p>Ability to work in a team and to promote team spirit</p>
General skills	<ul style="list-style-type: none"><li>- Excellent capability to interact with experts from different disciplines;</li><li>- Organizational skills and autonomy for his/her of responsibility;</li><li>- Good knowledge with CATIA V5 or similar CAD system;</li><li>- Excellent knowledge of the Microsoft Office package;</li><li>- Familiarity with schedule planning tools.</li></ul>
Languages	English (Fluent)