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JOB DETAIL

Ref. IO1810 - 1/26/2017

Interlock Systems Engineer - SCOD-021

Main job	Control system
Department	SCOD / Science & Operations Department
Division	SCOD / Control System Division
Section	SCOD / CSD / Plant Control & Instrumentation Section
Job Family	Engineer - 2
Application Deadline (MM/DD/YYYY)	03/08/2017
Grade	P3
Direct employment	Not required
Purpose	<p>-To contribute to the construction, installation and commissioning of the ITER Central Interlock Systems (CIS).</p> <p>-To coordinate the technical works carried out by the different industrial suppliers. To provide technical expertise to the various plant system responsible officers in IO (Central Team and Domestic Agencies) and their suppliers in order to ease and ensure the correct integration of all the ITER interlock components.</p> <p>-To implement the global dependability analysis, standards and guidelines for the ITER interlock systems within the project, including all the in-fund and in-kind plant systems playing a role in the overall ITER machine protection strategy.</p>
Main duties / Responsibilities	<p>-Leads the Factory and Site Acceptance Tests of the CIS components and sub-systems delivered by industrial suppliers, and takes the necessary steps to ensure that acceptance tests are successfully performed by providing, if required, corrective actions;</p> <p>-Coordinates the CIS suppliers in order to ensure that deliverables are provided in accordance to scheduled milestones;</p> <p>-Maintains and propagates the ITER guidelines and standards for the implementation of interlocks across all the ITER Project;</p> <p>-Develops and updates when necessary a comprehensive and exhaustive dependability analysis of the Interlocks Control System providing input to the design, construction and operation of the CIS and the Plant Interlock Systems;</p> <p>-Participates in the ITER Machine Protection Panel as dependability expert and leader of the overall machine protection reliability analysis, providing technical advices and guidance on the area to the involved plant systems when required;</p> <p>-Supports the Control Systems Division as interlocks instrumentation and controls expert during the reception and integration of the different Plant System I&amp;C, ensuring the correct implementation of investment protection guidelines;</p> <p>-Performs other duties in support of the project schedule;</p> <p>-May be requested to be part of any of the project/construction team and perform other duties;</p> <p>-Maintains a strong commitment to the implementation and perpetuation of the ITER Safety Program, values and ethics.</p> <p>-Reports to the Plant Control and Instrumentation Section Leader;</p> <p>-Interacts frequently with plant system responsible officers within the ITER Organization Central Team as well as in the Domestic Agencies;</p>
Measures of effectiveness	<p>-In response to requests from the Director-General and/or the Head of Science and Operations Department, or proactively, informs the DG/ the Head of Science and Operations 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.</p> <p>-Delivers and maintains a complete dependability analysis</p>

My space

RSS

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My job alert

of the Interlock Control System on schedule;  
-Conducts efficiently Factory and Site Acceptance Tests of CIS components;  
-Participates and provides advice to the Machine Protection Panel as dependability expert within the defined schedule;  
-Contributes effectively to the integration of local plant interlock systems in the Central Interlock Systems;  
-Keeps the relevant documentation up-to-date.

Project Construction Phase

Level of study	Master or higher degree
Diploma	Engineering specialized in control systems field
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 in the field of control systems related to machine protection; -Experience in Validation &amp; Verification methods, RAMI analysis and similar dependability techniques; -Knowledge of international standards applicable to machine protection, e.g. IEC 61508; -Experience in Factory and Site Acceptance testing of control system components and systems; -Experience in integration and operation of fusion devices, particle accelerators, power plants or large scientific facilities; -Experience in the construction/integration/operation of a scientific or technical facility; -Experience working in an international environment; -Good Project Management experience is required.</p>
Social skills	<p>Ability to work effectively in a multi-cultural environment Ability to work in a team and to promote team spirit</p>
Specific skills	MS Office standard (Word, Excel, PowerPoint, Outlook)
General skills	-Excellent computer and IT skills are mandatory.
Languages	English (Fluent)

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