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JOB DETAIL

Ref. IO1682 - 4/14/2016

Tokamak Instrumentation Engineer CST-038

Main job	Control system
Department	CST / Construction Department
Division	CST / Tokamak Assembly Section/Division
Job Family	Coordinating Engineer
Application Deadline (MM/DD/YYYY)	05/15/2016
Grade	P4
Direct employment	Not required
Purpose	- To support the Tokamak Assembly Section/Division Head in the planning, preparation and implementation of the installation of the Instrumentation and Control systems located within the tokamak boundary. - To prepare, plan, coordinate and implement the installation of the Tokamak Instrumentation located inside cryostat. - To ensure that installation of the Instrumentation and Control systems and associated services are undertaken and completed in accordance with the applicable quality, technical and administrative requirements, and in line with the project cost and schedule baselines. - To develop an overall strategy for completing the installation and testing of the related hardware focusing on integration, logistics, schedule and cost and for ensuring system constructability through collaboration with the system designers. - Supports the Section/Division Head in all matters related to the installation of the instrumentation and control systems servicing the Tokamak; - Develops the special installation procedure for various Tokamak Instrumentations located inside cryostat and provides appropriate training on special installation process to selected contractors if it is necessary;
Main duties / Responsibilities	- Contributes to the preparation of technical specifications, and participates to tendering processes; - Reviews the various contractor's documents such as technical documents/drawings, procedures, test & examination documents, schedule related documents, etc.; - Supervises day-to-day works being run by the contractor, controls work sequences or schedule and ensures work quality; - Ensures that interfaces are clearly defined, provides construction inputs and participates in the review of the engineering designs, provides expert guidance on design, installation and maintenance aspects; - Verifies constructability and construction readiness; - Ensures compliance with the applicable Decrees, Directives, Codes and Standards; - Coordinates with the centralized project schedule control team in establishing the construction master schedule, oversees the development of detail plans and schedules by works contractors; - Oversees the installation and testing of the instrumentation and control systems; - Performs other duties in support of the project schedule as described in the Detailed Work Schedule and the Strategic Management Plan; - May be requested to be part of any of the project team dealing with the above activities and performs other duties upon management request; - Maintains a string commitment to the implementation and perpetuation of the ITER Safety Program, values and ethics. - Reports to the Tokamak Assembly Section/Division Head; - Interfaces directly with all ITER Organization Departments and Offices ; - Directly interfaces with project team at all levels;

	- In response to requests from the Director-General and/or Construction Department Head, or proactively, informs the DG/Construction Department 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.
Measures of effectiveness	- Elaborates, maintains and implements the assembly plan for the Tokamak Instrumentation; - Manages the installation contract for Tokamak Instrumentation to quality, schedule and cost; - Generates and maintains coherent, comprehensive and understandable documentation; - Maintains effective communication within the ITER Organization and with partner organizations; - Completes the objectives set in agreement with the Tokamak Assembly Section/Division Head on schedule and cost. Project construction phase
Level of study	Master or equivalent degree
Diploma	Electronic Eng. field or other relevant discipline
Level of experience	At least 10 years
Technical experience/knowledge	- At least 10 years' professional experience in the management of development, installation and assembly of special sensors and cabling installed in UHV and cryogenic environments; - At least 5 years' professional experience in extreme engineering and technology is desirable; - Knowledge of various sensors using in extreme environments (high temperature, cryogenic temperature, high radiation, UHV condition etc.) and precision signal processing technology would be a strong advantage. - Experience of international procurement and tendering, and knowledge of contract law would be an advantage; - Experience in Project Management is required; - Demonstrated ability to deliver quality results on tight timescales.
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	- Proactive, with drive and initiative; - Ability to function effectively in a multi-cultural environment; - Ability to interface with team members at different levels; - Ability to write clear and concise reports;
Others	- Proficiency in the use of the Microsoft Office suite of software; - Experience of CAD, structural analysis and PLM software would be an advantage.
Languages	English (Fluent)

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