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JOB DETAIL

Ref. IO1708 - 5/25/2016

Power Conversion Technician PED 018

Main job	Electricity
Department	PED / Plant Engineering Department
Division	PED / Electrical Engineering Division
Section	PED / EED / Coil Power Supply Section
Job Family	Coordinating Officer
Application Deadline (MM/DD/YYYY)	06/26/2016
Grade	G5
Direct employment	Required
Purpose	<ul style="list-style-type: none"> - To manage and contribute to the engineering activities for design, integration, manufacturing, testing installation, commissioning and start-up of the ITER Alternating Current / Direct Current (AC/DC) Coil Power Converter System; - To contribute to troubleshooting and development of technical solutions for issues that might come-up during manufacturing, installation, testing and commissioning of the ITER AC/DC power converters; - The key facts and figures of this system are: <ul style="list-style-type: none"> • 4-Quadrants Thyristor based converter with circulating current operation at the unit power of 80MVA; • Total installed power about 2GVA; • Dynamic load characteristics and supply of the superconductive magnets. - Is responsible for the electrical and layout integration of the AC/DC converter system of the ITER Coil Power Supplies, that are in the scope of the Procurement Arrangements (PAs) of Chinese and Korean Domestic Agencies (DAs); - Supports the Technical Responsible Officers (TRO) of the Procurement Arrangements on AC/DC power converter and Reactive Power Compensators, including the following-up of design, manufacturing and factory testing of the components; - Actively contributes to the coil power supply system integration and increase the maturity of the interface with other ITER systems; - Coordinates the Computer Aided Design (CAD) Office involved in the work related to AC/DC converter system, and follow up the work performed by the DA CAD teams;
Main duties / Responsibilities	<ul style="list-style-type: none"> - Monitors and follows up the installation, on site testing and commissioning of the AC/DC converters, following the specific rules for segregation, separation and Quality Assurance/Quality Control; - Produces and manages 3 D models, electrical diagrams and 2D industrial drawings with CAD tools; - Proposes and implements actions required to resolve design, manufacturing, installation, testing and commissioning issues for the ITER coil power supply system; - Produces and updates procedures for the execution of factory and onsite acceptance tests, and integrated commissioning for the AC/DC converter systems; - Works as power supply operating engineer for the pre-operation of the Coil Power Supply System; - May be required to work shifts during the ITER assembly and commissioning phases; - Performs other duties in support of the project schedule as described in the Detailed Work Schedule and the Strategic Management Plan & upon management request; - May be requested to be part of any of the project team and perform other duties upon management request; - Maintains a strong commitment to the implementation and perpetuation of the ITER Safety Program, values and ethics. - Reports to the Coil Power Supply Section Leader; - Acts as an interface between all technical divisions, to

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	<p>support excellent integration of the electrical installation, the DAs and contractors;</p> <ul style="list-style-type: none">- In response to requests from the Director-General and/or Plant Engineering Department Head (PED), or proactively, informs the DG/ PED 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	<ul style="list-style-type: none">- Finalizes the design, integration and installation of the AC/DC converter system;- Finalizes procedures for testing and commissioning integration of the AC/DC converter system;- Maintains effective communication with all the interfacing teams of the ITER and the DA;- Provides the required input data and monitor the activities of the CAD design within the defined schedule;- Performs the analysis on the AC/DC converter system to verify installation, test and commissioning;- Performs the work on the installation of the components for AC/DC converter system.
	<p>Project construction phase SAP Id: 500002354</p>
Level of study	Bachelor or equivalent degree
Diploma	Electrical Eng field or other relevant discipline
Level of experience	At least 7 years
Technical experience/knowledge	<ul style="list-style-type: none">- Knowledge of international electrical standards;- Knowledge of the electrical steady state and transient analysis;- Knowledge of International Electrotechnical Commission standards for AC/DC conversion system. <p>- At least 7 years' experience in design and installation of complex electrical AC/DC conversion systems;</p> <p>- Experience in the design, installation and operation of AC/DC conversion system for Tokamak and/or large superconductive magnets would be an advantage.</p>
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	- Ability to interact with all stakeholders and in particular ASN authorities and the French Transmission System Operator.
Others	<ul style="list-style-type: none">- Good knowledge of Microsoft Office package tool;- Good knowledge of software applications for development of 3D model and 2D schematics;- Basic knowledge of running computer codes for transient and steady-state analysis of electrical system.
Languages	English (Working)