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JOB DETAIL

Ref. IO1785 - 11/16/2016

Electrical Commissioning Engineer - PED-066 & 074

Main job	Electricity
Department	PED / Plant Engineering Department
Division	PED / Electrical Engineering Division
Section	PED / EED / Coil Power Supply Section
Job Family	Engineer - 2
Application Deadline (MM/DD/YYYY)	12/29/2016
Grade	P3
Direct employment	Not required
Purpose	Two openings

-To integrate the engineering design of the Coil Power Supply System (CPSS) and the associated Instrumentation and Control (I&C) systems.
-To design, plan and execute the integrated tests and the commissioning of the CPSS including the associated I&C systems and the parts of the auxiliary plant systems, such as Cooling Water System, Heating Ventilation & Air Conditioning (HVAC) and Control, Data Access and Communication (CODAC), that are required to operate the Coil Power Supplies.
-To perform the in-field engineering activities during the installation, the on-site testing, commissioning and operation of the CPSS for both the main power components and the associated I&C system.

Main duties / Responsibilities

-Performs the design integration and implements technical solutions to resolve integration issues within the main power components of the Coil Power Supply System (CPSS) and the associated Instrumentation and Control (I&C) components and systems, including the I&C systems of the auxiliary plant systems, such as Cooling Water System, HVAC and CODAC, that are required to operate the CPSS;
-Produces the procedure for installation, on site testing, starting up of software and hardware of the CPSS I&C and performs the field surveillance, following the applicable rules for segregation, separation and Quality Assurance/Quality Control (QA/QC);
-Performs the electrical and I&C engineering analyses and develops the procedures for the on-site acceptance tests and integrated commissioning for the CPS;
-Supervises the on-site acceptance test and executes the integrated commissioning of the CPSS, including the required trouble shooting;
-Follows-up the production of Electrical Diagrams, Process Flow Diagrams (PFD), Control Loop Diagrams, Wiring Diagrams and produces the as-build drawings;
-Develops the plan for the preventive and routine maintenance as well as unplanned maintenance for the CPSS system;
-Joins operation & maintenance activities, including on call duty operation team;
-May be required to work outside normal working hours, including nights, weekends and public holidays;
-Performs other duties in support of the project schedule;
-May be requested to be part of any of the project/construction teams and to perform other duties;
-Maintains a strong commitment to the implementation and perpetuation of the ITER Safety Program, values and ethics.

Measures of effectiveness

-Reports to the Coil Power Supply Section Leader;
-Acts as an interface between all members of the Coil Power Supply Section, ITER CODAC section, Science Division, other plant systems and the ITER Domestic Agencies;
-In response to requests from the Director-General and/or Plant Engineering Department Head, or proactively, informs the DG/ Plant Engineering Department Head of

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any important and urgent issues that cannot be handled by the concerned line management and may jeopardize the achievement of the Project's objectives.

- Performs effectively the construction and commissioning activities of the Coil Power Supply Section for the scope of activities;
- Ensures proper execution of electrical engineering analyses required to support the installation and commissioning of coil power supply system;
- Contributes effectively the activities related to resolution of interfaces issues between electrical components, plant systems, CODAC and operation team.

Project Construction Phase

Level of study	At least Master's Degree or equivalent
Diploma	electrical eng, power systems or conversion
Level of experience	At least 8 years
Technical experience/knowledge	<div>-Degree at least equivalent to Master level in the electrical engineering, power systems, power conversion and control field or other relevant discipline;</div> <div>-Excellent knowledge of the electrical steady state and transient analysis for large power conversion systems;</div> <div>-Extensive knowledge in design and integration of electrical instrumentation and control systems for large electrical components and systems;</div> <div>-Good knowledge of industrial control systems involving the design and implementation of hardware, software, data transmission networks and processes;</div> <div>-Good knowledge of the International Electrotechnical Commission standards for the test of the large electrical installation;</div> <div>-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.</div>
Social skills	<div>Ability to work in a team and to promote team spirit</div> <div>Ability to communicate effectively</div>
Specific skills	MS Office standard (Word, Excel, PowerPoint, Outlook)
General skills	<div>-At least 8 years in the design, construction, test of Tokamak devices or equivalent large projects;</div> <div>-Good Experience in the management of test, commissioning and/or operation for large electrical systems.</div> <div>-Good Project Management experience is required.</div> <div>-Good experience in operation of high power conversion system;</div>
Others	<div>-Good knowledge of Microsoft Office package tool;</div> <div>-Good knowledge of software applications for development of 3D model and 2D schematics;</div> <div>-Good knowledge of running software tools for transient and steady-state analysis of electrical systems, including power converters and the associated I&C.</div>
Languages	English (Fluent)