

IO1196 Electrical Experienced Technician CEP-104

General information

Job category	Standard
Status	Published
Department	DIP/Directorate for Central Engineering & Plant
Division	CEP / Electrical Engineering Division
Section	CEP/ EED/ Coil Power Supply Section

Job description

Main job	Engineering - Electricity
Title of the position	Electrical Experienced Technician CEP-104
Job family	Experienced Technician - 1
Grade	G4
Direct employment	Required
Purpose	<p>To support the engineering design and integration activities of the Coil Power Supply Section in all matters related to design integration of Direct Current (DC) busbars and instrumentation of the ITER Coil Power Supplies, including the power and control cables for Fast Discharge Units and Switching Networks.</p> <p>To support the work on the installation of the components of Fast Discharge Units and Switching Networks and DC busbar system.</p>
Main duties / Responsibilities	<p>Manages the electrical integration and layout of the DC busbars system of the ITER Coil Power Supplies, including line and earthing dis-connector, instrumentation and mechanical support;</p> <p>Manages the routing of power and control cables for Fast Discharge Units and Switching Networks;</p> <p>Follows up the interfaces between busbars, power supply components, magnets, cooling water, and the building infrastructure (penetrations, mechanical supports, space reservation, compressed air etc.), be responsible for the required documentation update;</p> <p>Follows-up with the ITER and DA Computer Aided Design (CAD) Office involved in the work related to the DC busbar and instrumentation;</p> <p>Manages the installation of the components of the Switching Network Unit, Fast Discharge Unit and DC busbar system, following the specific rules for segregation, separation and Quality Assurance/Quality Control that are dedicated to the interconnection of safety relevant power supply components;</p> <p>Supports the Technical Responsible Officer (TRO) of the Procurement Arrangement (PA) for Switching Network Unit, Fast Discharge Unit and DC busbar to follow-up the design, construction, testing of the associated components;</p> <p>Maintains a strong commitment to the implementation and perpetuation of ITER safety program, values and ethics;</p> <p>Performs other duties in support of the project schedule as described in the Detailed Work Breakdown Structure Schedule or Strategic Management Plan;</p> <p>Performs other duties linked to the above purpose upon management request, as necessary;</p> <p>Maintains a strong commitment to the implementation and perpetuation of the ITER Safety Program, values and ethics.</p>
Measures of effectiveness	<p>Reports to the Coil Power Supply Section Leader.</p> <p>Acts as an interface between with all members of the Electrical Engineering Division, Magnet Division, cooling water designer, building designers, Domestic Agencies and others responsible for systems to support excellent design integration of the DC busbar system and the systems installation.</p> <p>In response to requests from the Director-General and/or the Director for Central Engineering and Plant, or proactively, informs the DG/ Director for Central Engineering and Plant 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>Manages the design integration of the DC busbars system and power and control cables for Fast Discharge Units and Switching Networks;</p> <p>Maintains effective communication with all the interfacing teams of the ITER and the DA.</p>

Provides the required input data and monitor the activities of the CAD design.
 Performs the work on the installation of the components for Fast Discharge Units and Switching Networks and DC busbar package;

Project Construction Phase

Applicant criteria

Level of study	Bachelor or higher degree
Diploma	Electrical or Electro-mechanical engineering
Level of experience	5 to 9 years
Technical experience	Experience in design and installation of complex electrical busbar systems; Knowledge of International Electrotechnical Commission standards for DC busbar and cable installation would be an advantage. Experience in the design and installation of complex electrical system for Tokamaks and/or large superconductive magnets would be an advantage
Social skills	Ability to work effectively in a multi-cultural environment , Ability to work in a team and to promote team spirit
Languages	English (Working)
Specific skills	MS Office standard (Word, Excel, PowerPoint, Outlook)
Free criteria	Good knowledge of software applications for development of 3D model and 2D schematics; Good knowledge of running computer codes for transient and steady-state analysis of electrical system would be an advantage.