

IO1218 Electrical Experienced Technician CEP-125

General information

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

Job description

Main job	Engineering - Electricity
Title of the position	Electrical Experienced Technician CEP-125
Job family	Experienced Technician - 2
Grade	G5
Direct employment	Required
Purpose	<p>-To manage the engineering activities for the pre-operation, maintenance and trouble shooting of the ITER Steady State Electrical Power Network (SSEN) and Pulsed Power Electrical Network (PPEN) systems, including the following up of the consumers' needs according the project stages.</p> <p>-To support the monitoring and follow up of the activities for the construction, installation and testing of the ITER SSEN and PPEN systems.</p> <p>The key facts and figures of these two systems are:</p> <ul style="list-style-type: none">-A 400 kV substation and a large 66 kV switchyard;-Seven large step down transformers 400 kV/66kV/22kV with a total installed power of about 1.2 GVA;-Alternative Current power distribution systems at 66 kV, 22 kV, 6.6 kV and 400 V;-Emergency Power generators (total installed power about 18 MW), UPS (total installed power about 5 MW) and associated distribution system;-Site and building earthing systems.
Main duties / Responsibilities	<ul style="list-style-type: none">-Manages the grid interface for protection plan and signal exchanges, in order to communicate to the grid operator the exact status of the facility and forecasted operation events;-Manages the electrical consumption to evaluate the forecasted consumption of annual basis; depending of the systems installation and commissioning schedule, there is the need to predict the electrical needs;-Supervises the control systems of high and medium voltage electrical networks;-Manages the ITER pre-operation support contract, including the maintenance planning according to the different systems schedule;-Integrates the new Steady State Electrical Network (SSEN) branches during the phase where pre-operation and installation are together (2015-2017);-Manages the integration of new users of the electrical networks;-Integrates the emergency electrical distribution networks (Investment Protection and Safety) in the overall ITER electrical networks;-Supports the monitoring and follow up of the activities performed by the Contractors of DA and IO for the construction, installation and testing of the ITER SSEN and PPEN systems.-Performs other duties in support of the project schedule as described in the Detailed Work Schedule and Strategic Management Plan;-Performs other duties linked to the above purpose upon management request, as necessary;-Maintains a strong commitment to the implementation and perpetuation of the ITER Safety Program, values and ethics. <p>-Reports to Electrical Power Distribution (EPD) Section Leader;</p> <p>-Acts as an interface between all technical divisions, to support excellent integration of the electrical installation, the DAs and contractors;</p> <p>-In response to requests from the Director-General and/or Director of Central Engineering & Plant (CEP) Directorate, or proactively, informs the DG/ Director of CEP Directorate of any important and urgent issues that cannot be handled by the concerned line management and may jeopardize</p>

Measures of effectiveness	the achievement of the Project's objectives.
	<ul style="list-style-type: none"> -Completes requested procurement and installation activities of the EPD Section in accordance with the defined schedule; -Communicates efficiently with other sections and Directorates of the ITER Organization on EPD related issues; -Coordinates and directs efforts of the ITER Organization and the Domestic Agencies in respect to design, manufacturing, installation and commissioning of the ITER EPD. -Project Construction Phase.

Applicant criteria

Level of study	Bachelor or higher degree
Diploma	Electrical Engineering
Level of experience	At least 8 years
Technical experience	<ul style="list-style-type: none"> -Experience in pre-operation, maintenance and trouble shooting of components and systems, comparable with those of the ITER PPEN and SSEN systems; -Experience in large science or industrial facility is required.
Social skills	Ability to work effectively in a multi-cultural environment , Ability to work in a team and to promote team spirit
General skills	-Basic Project Management experience is required.
Languages	English (Working) French (Working)
Specific skills	MS Office standard (Word, Excel, PowerPoint, Outlook)