

IO1661 Electrical Engineer - PED-036

General information

Job category	Standard
Status	Published
Department	PED / Plant Engineering Department
Division	PED / Electrical Engineering Division
Section	PED / EED / Electrical Power Distribution Section

Job description

Main job	Engineering - Electricity
Title of the position	Electrical Engineer - PED-036
Job family	Engineer - 1
Grade	P2
Direct employment	Not required
Purpose	<p>To support the Electrical Power Distribution (EPD) section in all matters related to integration tests and commissioning of Instrumentation, Control and Protections of the ITER electrical power distribution networks.</p> <p>Integrates the instrumentation and control design, according the in-kind deliveries of electrical components by different Domestic Agencies;</p> <p>Monitors the installation of main substation control system based on IEC61850 standard;</p> <p>Validates all instrumentation and control design, depending on the voltage level (control and protection loops in High Voltage, Medium Voltage and Low Voltage);</p> <p>Manages the commissioning procedures regarding instrumentation and control according the overall project schedule;</p> <p>Troubleshoots and upgrades ITER Organization facilities from electrical distribution networks monitoring, instrumentation, control and protection point of view;</p> <p>Follows-up the design and production of Electrical Diagrams, Process Flow Diagrams (PFD), Control Loop Diagrams, and Wiring Diagrams;</p> <p>Reviews the work performed by Engineering Support Companies contracted by the ITER Organization to develop, compile and update Electrical and Process & Instrumentation Diagrams that are related to the components under her/his responsibilities and alerts line management when necessary;</p> <p>Manages the witnesses qualification tests and factory acceptance tests related to the components that are under her/his responsibilities and alerts line management when necessary;</p> <p>Checks the on-site contracts for installation, testing and commissioning of components that are under her/his responsibilities and alerts line management when necessary;</p> <p>Performs other duties in support of the project schedule as described in the Detailed Work Schedule and the Strategic Management Plan;</p> <p>May be requested to be part of any of the project team dealing with the above activities and performs other duties upon management request;</p> <p>Maintains a strong commitment to the implementation and perpetuation of the ITER Safety Program, values and ethics;</p> <p>May be requested to work on beryllium-containing components. In this case, you will be required to follow the established ITER Beryllium Management Program for working safely with beryllium. Full training and support will be provided by the ITER Organization.</p>
Main duties / Responsibilities	<p>Reports to the Electrical Power Distribution Section Leader;</p> <p>Acts as an interface between all members of the Electrical Power Distribution section, ITER CODAC Section , Engineering Support Companies contracted by the ITER Organization and the ITER Domestic Agencies;</p> <p>In response to requests from the Director-General and/or the Head of Plant Engineering Department (PED) or proactively, informs the DG/Head of PED Department 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>Performs effectively the design and construction activities of the Electrical Power Distribution</p>

Measures of effectiveness	Section for the scope of activities;
	Ensures proper execution of Electrical Engineering design and analyses as well as to support the design and installation of instrumentation and control of electrical components.
	Contributes effectively the activities related to resolution of interfaces issues between electrical components, plant systems and CODAC.
	Manages interface between ITER divisions and Domestic Agencies and maintains effective communications with all parties delivering subsystems.
Project Construction Phase	

Applicant criteria

Technical experience/knowledge	Level of study	Master or equivalent degree
	Diploma	Electrical engineering
	Level of experience	At least 5 years
		Degree or equivalent in electrical engineering, with strong competences in design and integration of electrical instrumentation and control.
		At least 5 years' experience in design and/or installation of large Electrical components and systems, comparable with those of the ITER power supply systems.
		At least 3 years' experience in following up test, commissioning and/or operation of Instrumentation & Control (I&C) systems for large electrical power distribution systems.
	Social skills	Ability to work effectively in a multi-cultural environment , Ability to work in a team and to promote team spirit, Collaborative
	Languages	English (Fluent)
	Others	Experience in using tools for Electrical Engineering analyses, like ETAP or equivalent.
		Experience in using 2D tools for production of diagrams (Electrical and P&ID); Experience in using 3D CAD tools is recommended.