

IO1221 Cable Engineer CEP-128

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	Cable Engineer CEP-128
Job family	Engineer - 1
Grade	G6
Direct employment	Required
Purpose	<p>To manage the cable engineering tasks (production of cable diagrams, cable routing, cable tray network design and cable terminations) for the ITER facility, including the supervision of Engineering Support Companies activities.</p> <p>To manage the cabling interfaces between the different systems within the ITER project.</p> <p>To supervise the design integration of the cables and cable tray network in the ITER facility.</p> <p>The key facts and figures of the ITER Cable Engineering system are:</p> <ul style="list-style-type: none">more than 120,000 cables;more than 150 km of cable trays installed in buildings and galleries;it is a key system for the scientific success of the project;it includes important interfaces and requirements regarding nuclear safety. <p>Interfaces on the Cable Engineering activities using the ITER standard software tools for the cable and cable tray design workflow. Those cable engineering activities include:</p> <ul style="list-style-type: none">- Cable Data gathering: collecting the data links between equipment;- Production of Electrical cable diagrams in 2D;- Cable tray design in 3D with CATIA;- Seismic studies for cable tray supports;- Cable routing: route the cables over the different cable trays and penetrations, using an automatic routing tool;- Design of Cable terminations: Detail the cable wire termination into connectors and/or terminal blocks;- Production of Bill of Material: list of cables, connectors, cable trays;- Production of Cable routing card: production of the cable installation and termination sheets;- Production of Cable trays installation reports: production of reports for cable trays installation;- Cable tray installation supervision;- Cable pulling and termination supervision; <p>Supervises the work performed by Engineering Support Companies contracted by the ITER Organization. This work comprises the preparation of the corresponding task order (or work assignment) describing the scope of work, input data, deliverables and due date, for the activities listed above. The work assignment execution will require data gathering, control of the schedule, and revision and approval of the deliverables issued;</p> <p>Performs other duties in support of the project schedule as described in the Detailed Work Schedule and 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> <p>Reports to the Electrical Power Distribution Section Leader;</p> <p>Acts as an interface between all technical divisions, to support excellent integration of the electrical installation, the Domestic Agencies 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 the achievement of the Project's objectives.</p>
Main duties / Responsibilities	

Measures of effectiveness	<p>Completes requested engineering design and installation activities of the Cable engineering team in accordance with the defined schedule, with the support of the Cable Engineering contractors;</p> <p>Communicates efficiently with other sections and departments of the ITER Organization on related issues;</p> <p>Coordinates and directs efforts of the ITER Organization and the Domestic Agencies in respect to design, installation and commissioning of the cables.</p> <p>Manages efficiently the contracts;</p> <p>Completes the cabling within the deadlines defined in the construction schedule.</p>
	Project Construction Phase

Applicant criteria

Level of study	Bachelor or higher degree
Diploma	In the Electrical Engineering field or other
Level of experience	At least 8 years
Technical experience	<ul style="list-style-type: none"> - Experience in engineering with at least 5 years' experience in cable engineering (cable diagram production, cable routing cable tray design); - Field Experience (cable pulling or cable tray installation and/or supervision) would be considered an advantage; - Work experience in large scientific or industrial facility is required; - Basic Project Management experience is required.
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)