

## Power Conversion Technical Engineer

CEP-072

<b>Reports to Line Manager:</b>	Coil Power Supply & Distribution Section Leader, Electrical Engineering Division, Central Engineering and Plant Support Department	<b>Job Code:</b>	CEP-072
<b>Direct Employment:</b>	Required	<b>Grade:</b>	G5

### Purpose

To support the Coil Power Supply & Distribution Section in the design, procurement, construction, factory tests, installation, on-site acceptance tests, commissioning and start-up of the ITER Alternating Current/Direct Current (AC/DC) coil power converters.

### Major Duties/Responsibilities

china

eu

india

japan

korea

ru<sup>s</sup>sia

usa

- Carries out engineering analyses and design integration activities performed by contractors for the ITER AC/DC coil power converters;
- Supports the control of the AC/DC coil power converter interfaces, including buildings and site layout;
- Supports the activities performed by the ITER Domestic Agencies, including the design, manufacturing, testing and installation of the components delivered by them;
- Is responsible for writing and ensuring the quality of documentation for the ITER AC/DC coil power converters, including technical specifications and associated supporting documents for the procurement arrangement of the components;
- Implements guidelines and rules established by line management;
- Maintains a strong commitment to the implementation and perpetuation of the ITER Safety Program, values and ethics.

### Qualifications and Experience

- **Education:**
  - Degree at least equivalent to 3-5 years of study after the High School Diploma (ex. Bachelors), in Power Conversion, Power Electronic, Electrical engineering or other relevant discipline;
- **Technical experience:**
  - The ideal candidate should have at least 12 years' experience in design construction and testing of large AC/DC power converters comparable with those of the ITER Coil Power Supplies.
- **Social Skills:**
  - Ability to work effectively in a multi-cultural environment;
  - Collaborative and positive personality.

- ***Language requirements:***
  - Very good command of English, both spoken and written.
- ***Computer and IT skills:***
  - Experienced in the use of software tools for the transient analysis of power converters (example: Matlab/Symulink, PSCAD, PSIM, EMTP, or equivalent);
  - Good command of the Microsoft Office package.

### **Direct Supervisor and Interfaces**

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- Reports to the Coil Power Supply & Distribution Section Leader;
- Interfaces with all members of the Electrical Engineering Division to support excellent integration of the Coil Power Supply components and sub-systems.

### **Authority / Approval Levels**

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This position has authority and approval levels generally defined by the Coil Power Supply & Distribution Section Leader for his/her scope of work.

### **Measures of Effectiveness**

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- Successfully supports the Electrical Engineering Division's design and construction activities;
- Successfully participates in the activities related to the design, manufacturing, testing and installation of the Coil Power Supply components and sub-systems;
- Successfully contributes to controlling the interfaces with other ITER Departments/Division and the Domestic Agencies;
- Successful supports the work of the ITER Organization and Domestic Agencies;
- Successfully maintains effective communication with all parties delivering subsystems.