

## Coil Power Supply & Distribution Section Leader

CEP-025

<b>Reports to Line Manager:</b>	Head of the Electrical Power Supply Division; Central Engineering and Plant Support Department	<b>Job Code:</b>	CEP-025
<b>Direct Employment:</b>	Not Required	<b>Grade:</b>	P5

### Purpose

Electrical or Power Electronic engineer responsible for the design, procurement and integration of the ITER Coil Power Supplies and Pulsed Power Alternating Current (AC) Distribution, by leading the members of the Coil Power Supply Section, completing the system and component design, developing the technical specifications for the procurement arrangement and managing the activities related to manufacturing, testing, installation, commissioning and plant start up.

china

### Major Duties/Responsibilities

eu

india

japan

korea

ru<sup>s</sup>sia

usa

- Is the Responsible Officer for the Coil Power Supplies and Pulsed Power AC Distribution;
- Provides effective leadership for the Section ensuring team members are motivated and constantly developing their skills and experience;
- Ensures the preparation and revision of the Coil Power Supplies and Pulsed Power AC Distribution design and procurement documentation, including the technical specifications and associated support documents for the procurement arrangement of the components;
- Is responsible for the integration and layout of the Coil Power Supplies and Pulsed Power AC Distribution;
- Manages all interfaces within the components of the Coil Power Supplies and Pulsed Power AC Distribution and with the other ITER systems, particularly magnets, plasma control, interlocks, protection systems, buildings and site layout;
- Ensures the consistency of procurement and construction planning;
- Supervises the contributions from the ITER Domestic Agencies, including design activities, manufacturing, testing and installation of the components delivered by the Domestic Agencies;
- Supports the licensing activities and safety assessment related functions in close collaboration with the safety group;
- 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 5-8 years of study after the High School Diploma (ex. Masters or PhD), in Electrical Engineering or other relevant discipline.

- ***Technical & Project experience:***
  - At least 15 years' experience and competent expertise in the design, construction and operation of 400 kV substations, large step down transformers, pulsed power distribution systems, AC/DC conversion plant above 200 MVA and Reactive Power Compensation systems above 200 Mvar;
  - Good knowledge of the design details and technical requirements of Power Supply systems comparable to those required for ITER;
  - Ability to draft and revise technical reports, documentation and project plans;
  - Experience in the preparation of technical specifications for procurement contracts of large electrical components and subsystems;
  - Basic Project Management experience is required;
  - Experience working with Tokamak fusion devices, or large international scientific facilities would be considered an advantage;
- ***People Management experience:***
  - At least 10 years' experience managing projects and teams.
- ***Social skills:***
  - Collaborative and positive personality;
  - Ability to work effectively in a multi-cultural environment;
  - Ability to work in a team and to promote team work.
- ***Language requirements:***
  - Fluent in English (written and spoken).
- ***Computer and IT skills:***
  - Good knowledge of Microsoft Office tools.

## **Direct Supervisor and Interfaces**

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- Report to the Electrical Power Supply Division Head;
- Interfaces with all other Sections and Departments within the ITER Organization as required.

## **Authority / Approval Levels**

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This position has authority and approval levels as defined by the DDG for his/her scope of work.

## **Measures of Effectiveness**

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- Successfully supports ITER Coil Power Supplies and Pulsed Power AC Distribution design, including identification of design changes required and establishing priority levels and means for their implementation;
- Establishes a mechanism for Coil Power Supplies and Pulsed Power AC Distribution design integration and interface with other ITER systems;
- Successfully communicates with other Sections and Departments within the ITER Organization on Coil Power Supplies and Pulsed Power AC Distribution related issues;
- Successfully coordinates and supports the efforts of the ITER Organization and the Domestic Agencies in respect to design, fabrication, installation and commissioning of the ITER Coil Power Supplies and Pulsed Power AC Distribution;
- Successfully supports and motivates the work of the Coil Power Supply Section staff members.