

<b>TITLE:</b> Leader of the Coil Power Supply Section		CEP-025
<b>REPORTS TO LINE MANAGER:</b> Head of the Electrical Engineering Division/Central Engineering and Plant Support Department		
<b>DIRECT EMPLOYMENT:</b> REQUIRED		<b>GRADE RANGE:</b> P4-P5
<b>Date Written:</b> July 2008	<b>Date Revised:</b>	<b>Date Revised:</b>

**Purpose:**

To be responsible for design, procurement, testing, integration and plant start up of the ITER Coil Power Supplies, by leading the members of the Coil Power Supply Section. To be the Responsible Officer for the Coil Power Supplies.

**Major Duties/Responsibilities:**

- Provides effective leadership for the Coil Power Supply Section, ensuring that team members are motivated and constantly developing their skills and experience;
- Prepares and revises the Coil Power Supplies design and procurement documentation, including the technical specifications and associated supporting documents for the procurement arrangements of the components;
- Implements integration and layout of the Coil Power Supplies;
- Manages all interfaces within the components of the Coil Power Supplies, the Pulsed Power AC Distribution and the other ITER systems, particularly magnets, plasma control, interlocks, protection systems, buildings and site layout;
- Develops and monitors budget, resources, procurement and construction plans related to the activities under her/his responsibility;
- Supervises the contributions from the ITER Domestic Agencies, including design activities, manufacturing, testing and installation of the components delivered by the Domestic Agencies;
- Evaluates design issues and provides reports for Management Review;
- Implements guidelines and rules established by the ITER top management and Project Office;
- Supports the licensing activities and assessment of safety-related functions in close contact 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:** Master's Degree in Electrical/Power Electronic Engineering or equivalent.
- **Experience:** At least 7 years' experience and competent expertise in design, construction and operation of step-down transformers, pulsed power distribution systems, AC/DC power conversion plant and Reactive Power Compensation systems;

- Good knowledge of the design details and technical requirements of Power Supply systems comparable to those required for ITER;
- Good ability to draft/revise technical reports/documentation and project plans;
- Capacity to work under pressure and draft, in a very short time, reports/memos for the line management;
- Extensive experience in the preparation of technical specifications for procurement contracts of large electrical components/subsystems;
- Extensive experience in project management, monitoring/following up contracts for design, construction, installation and testing of large electrical components/subsystems;
- Extensive experience in team management;
- Ability to work effectively in a multicultural environment;
- Collaborative and positive personality.
- **Language requirements;** Good communication skills in both written and spoken English.

**The following optional qualifications will be considered an advantage:**

- Previous work experience in design, construction and operation of power supply systems for Tokamak fusion devices or large science facilities;
- Previous work experience in design, construction and operation of high power, power conversion and reactive power compensation plants (i.e. rated power above 400 MVA) for electrochemical plant, HVDC transmission links, or equivalent;
- Previous work experience in design, construction and operation of fast discharge systems for the quench protection of large superconductive magnets.

**Work Direction and Interfaces:**

- Reports to the Head of the Electrical Engineering Division;
- Interacts with members of the ITER Team and Domestic Agency Personnel as required.

**Authority/Approval Levels:**

This position has authority and approval levels generally defined by the Head of the Electrical Engineering Division for her/his scope of work.

**Measures of Effectiveness:**

- Successfully supports ITER Coil Power Supplies design and construction, including identification of design changes required and establishing priority levels and means of their implementation;
- Successfully manages the Coil Power Supplies design integration and interface with other ITER systems;
- Successfully monitors budget, resources and project plans related to the activities under his/her responsibility;
- Successfully implements guidelines and rules established by the ITER top management and Project Office;
- Successfully provides effective leadership for the Coil Power Supply Section.
- Successfully implements the ITER safety program, values and ethics.