

TITLE: Leader of Steady State Electrical Power Network (SSEPN) Section		CEP-061
REPORTS TO LINE MANAGER: Head of Electrical Power Supply Division; Department of Central Engineering and Plant Support		
DIRECT EMPLOYMENT: NOT REQUIRED		GRADE: P4-P5
Date Written: July 2007	Date Revised:	Date Revised:

Purpose:

Electrical engineer responsible for integration and all design aspects of the whole ITER Steady State Electrical Power Network (SSEPN), by leading the SSEPN section members, completing the SSEPN design, developing the technical specifications for the procurement arrangement, and preparing the design inputs for the preliminary safety report.

Major Duties / Responsibilities:

- Responsible Officer for the SSEPN.
- Provides effective leadership for the SSEPN section, ensuring that team members are motivated and constantly developing their skills and experience.
- Responsible for preparation and revision of all SSEPN design and procurement documentation, including the technical specifications and associated support documents for the procurement arrangement of the SSEPN components.
- Responsible for integration and layout of the SSEPN.
- Management of all interfaces within the components of the SSEPN and with the other ITER systems, particularly those requiring electrical power from the SSEPN, and interfaces with the ITER Control Interlock and Protection systems, and the buildings and site layout.
- Responsible for the consistency of the SSEPN procurement and construction planning.
- Coordinate and direct the contributions from the ITER Domestic Agencies, including design activities and procurement packages.
- Provision of support in the licensing activities and assessment of safety related functions in close contact to the safety group.
- General supervision of in kind procurement and contracts with suppliers.

Qualifications required:

- University degree in electrical engineering, or equivalent.
- Minimum of 10 years experience and competent expertise in design, construction and operation of 400 kV substations, step down transformers,

Medium and Low Voltage distribution systems and electrical installations, of rated power above 30-50 MVA

- Good knowledge of the design details, technical requirements and safety functions of electrical distribution systems comparable to those of the ITER SSEPN.
- Good knowledge of electrical standards and design criteria for Nuclear Safety Relevant components.
- Good ability to draft/revise technical report/documentation and project plans.
- Good experience in the preparation of technical specifications for procurement contracts of large electrical components/subsystems.
- Good experience in monitoring/following up contracts for design, construction, installation and testing of large electrical components/subsystems.
- Ability to work effectively in a multi-cultural environment.
- Collaborative and positive personality.
- Very good command of English, both spoken and written.

The following optional qualifications will be considered an advantage:

Previous working experience in design, construction and operation of power supply systems for Tokamak fusion devices.

Previous working experience in design, construction and operation of electrical distribution systems for large power plants, or equivalent.

Work Direction and Interfaces:

Reports to the Head of Electrical Power Supply Division. Interfaces with all other sections and departments within the ITER Organization as required.

Authority/Approval Levels:

Has authority and approval levels generally defined by the DDG for his/her scope of work (SSEPN)

Measures of Effectiveness:

Successfully supports ITER SSEPN design, including identification of design changes required and establishing priority level and means of their implementation

Establishing a mechanism for SSEPN integration and interface with other ITER systems

Successfully supports SSEPN related activities in preparation of RPrS for ITER.

Successfully communicate with other sections and departments of the ITER Organization on SSEPN related issues

Successfully coordinate and direct efforts of the ITER Organization and the Domestic Agencies in respect to design, fabrication, installation and commissioning of the ITER SSEPN.

Successfully supports the SSEPN section colleagues.