

<b>TITLE: Electrical Engineer</b>		<b>CEP-029</b>
<b>REPORTS TO LINE MANAGER:</b> Leader of the Steady State Electrical Power Network (SSEPN) section Central Engineering and Plant Support Department		
<b>DIRECT EMPLOYMENT:</b> NOT REQUIRED		<b>GRADE RANGE:</b> P3-P4
<b>DATE WRITTEN:</b> December 2007	<b>DATE REVISED:</b>	<b>DATE REVISED:</b>

**Purpose:**

- Follow up the engineering design, procurement, installation and commissioning of the components for the ITER Steady State electrical Power Network (SSEPN), including 400 kV substation, large step down transformers, AC power distribution (Medium voltage and Low voltage), Emergency Power distribution, site and building grounding.

**Major Duties/Responsibilities:**

- Preparation and revision of all SSEPN design and procurement documentation, including the technical specifications and associated support documents for the Procurement Arrangements of the SSEPN components.
- Follow-up of the integration and layout of the SSEPN.
- Follow-up of the consistency of the SSEPN procurement and construction planning.
- Support in the licensing activities and assessment of safety related functions in close contact with the safety group.
- Supervision of design and fabrication activities carried out by the ITER Domestic Agencies, and their engineering companies and industries.
- Witness acceptance tests.

**Qualifications Required:**

- University degree (DipIng. or MSc) in Electrical Engineering, or equivalent.
- At least 7 years post graduate experience in managing design, construction, installation and testing of electrical components and systems comparable to those of the ITER SSEPN, or projects of similar complexity (i.e. AC rated voltage in the range from Low to High Voltage, rated power above 20 MW).
- 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 international electrical standards and general design criteria for Nuclear Safety Relevant components.
- Good ability to draft/revise technical reports/documentation and project plans.
- Good experience in the preparation of technical specifications for procurement contracts of large electrical components/subsystems (Low, Medium and High voltage, and rated power above 20MW)
- Good experience in monitoring/follow-up of contracts for the 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 both spoken and written English..

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

- Good knowledge of the ETAP software application ([www.etap.com](http://www.etap.com)) or equivalent applications for analysis of electrical circuits.

**Work Direction and Interfaces:**

- Reports to the Section, Steady State Electrical Power Network Leader.
- Interfaces with all technical divisions to support the efficient integration of the electrical installations.

**Authority/Approval Levels:**

- Has authority and approval levels generally defined by the Electrical Power Supply Division Head for his/her scope of work.

**Measures of Effectiveness:**

- Successfully supports the design and construction activities of the Steady State Electrical Power Network section.
- Successfully communicates with other sections and departments of the ITER Organization on SSEPN related issues
- Successfully coordinates and directs the efforts of the ITER Organization and the Domestic Agencies with respect to design, fabrication, installation and commissioning of the ITER SSEPN.