TITLE: Power Converter Project Engineer		CEP-063
REPORTS TO LINE MANAGER: Leader of the Coil Power Supply section; Department of Central Engineering and Plant Support		
DIRECT EMPLOYMENT: NOT REQUIRED		GRADE: P3-P4
Date Written: July 2007	Date Revised:	Date Revised:

Purpose:

Power Electronic or Electrical engineer responsible for the planning and scheduling the design and construction activities, and the preparation of the procurement technical specifications for the procurement and installation of the AC/DC Power Converters and Reactive Power Compensation System. Track and maintain progress of work and resource plan of the AC/DC Power Converters and Reactive Power Compensation System. Analyze monthly data and make Coil Power Supply section leader aware of discrepancies and deviations from the planning base. The work will also include supervision of construction and installation of the components included in the procurement package dedicated to the AC/DC power converters and Reactive Power Compensation system.

During the initial period of assignment, because of the limited staff working in the Coil Power Supply section, the successful candidate will be asked to also take the responsibility of planning and scheduling for the Switching Networks and Fast Discharge Units, as well as contribute to the preparation of the technical specifications for the procurement and installation of the Switching Networks and Fast Discharge Units.

Major Duties / Responsibilities:

- Develop and monitor the overall AC/DC Power Converters and Reactive Power Compensation System schedule and resources for the ITER project, including construction, commissioning and operation.
- Monitor the activities related to the procurement of the AC/DC Power Converters and Reactive Power Compensation System to ensure that components and subsystems will be designed, fabricated, shipped and installed on schedule. Prepare monthly project control reports for these activities.
- Prepare and revise the technical specifications and associated support documents for the procurement arrangement of the AC/DC Power Converters and Reactive Power Compensation System.
- Propose and implement actions required to resolve design, construction and installation issues.
- Coordinate and monitor the activities of the ITER Domestic Agencies, responsible for the procurement packages dedicated to the AC/DC Power Converters and Reactive Power Compensation System
- Supervise in-kind procurement and contracts with suppliers regarding the area of responsibilities.

Qualifications required:

- University degree in electrical engineering, power electronic engineering, or equivalent.
- Minimum of 5 years experience and competent expertise in design and construction of thyristor power converters of rated current and power above 20 kA and 30 MVA, and Reactive Power Compensation systems with rated power above 100 Mvar.
- Good ability to quickly draft/revise technical report/documentation and project plans.
- Good experience in the preparation of technical specifications for procurement contracts of large electrical/power electronic components/subsystems.
- Good experience in monitoring/following up contracts for design, construction, installation and testing of large electrical components/subsystems.
- Ability to work independently with minimal supervision.
- Ability to work effectively in a multi-cultural environment.
- Collaborative and positive personality.
- 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 large power converters for experimental fusion devices.

Work Direction and Interfaces:

Reports to the Leader of the Coil Power Supply section. 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 (AC/DC Power Converters and Reactive Power Compensation System)

Measures of Effectiveness:

Successfully implement guidelines and direction received from the Leader of the Coil Power Supply section and the DDG.

Successfully manage the planning and scheduling of the design and construction activities, and the preparation of the procurement technical specifications for the procurement and installation of the AC/DC Power Converters and Reactive Power Compensation System.

Successfully develop, in agreement with the ITER general project schedule, cost effective installation and testing plans.

Successfully maintains effective communications with all parties delivering subsystems.

Successfully coordinate and direct efforts of the ITER Organization and the Domestic Agencies in respect to design, fabrication, installation and commissioning of the ITER AC/DC Power Converters and Reactive Power Compensation System.