

<b>TITLE: TF COIL SECTION LEADER</b>		<b>TKM-004</b>
<b>REPORTS TO LINE MANAGER:</b> Magnet Division Head Tokamak Department		
<b>DIRECT EMPLOYMENT:</b> NOT REQUIRED		<b>GRADE RANGE:</b> P4-P5
<b>DATE WRITTEN:</b> October, 2006	<b>DATE REVISED:</b> January , 2008	<b>DATE REVISED:</b>

**Purpose:**

- To manage the ITER TF coil section: the design and procurement of the ITER TF coils, including work organisation, schedules and interfaces to ITER participants responsible for procurement and their industries.

**Major Duties/Responsibilities:**

- Provide effective leadership for the ITER TF coil section, ensuring that team members are motivated and constantly developing their skills and experience.
- Develop the TF coils towards construction. Monitor R&D in institutes and industry, ensuring that the results are implemented in the design. Ensure proper qualification testing of the design and that it is implemented at appropriate points during the fabrication.
- Monitor the TF coil manufacture, ensure that quality controls are properly implemented and take effective action where quality problems are found.
- Prepare and maintain TF coil documentation, including design and analysis, drawings.
- Supervise and contribute to design work on the TF coils, maintaining update controls on drawings and CAD models; responsible for issuing TF coil drawings.
- Responsible officer for the TF winding pack procurement, including preparation of the procurement specifications.
- Monitor TF coil procurement costs, time scales and resources planned/used. Highlight potential delays in sufficient time for corrective action to be applied.
- Report on the TF coil section activities.

**Qualifications and Experience:**

- Advanced university degree (DrIng or PhD) in engineering or physics (mechanical or electrical)
- At least 10 years post graduate experience, including 5 specifically in coil design, analysis and manufacturing, covering high voltage electrical engineering issues.
- Experience in fabrication (forming and welding) of large metallic structures.
- Good knowledge of aspects of cryogenic coil design.
- Ability to communicate clearly and write technical reports and specifications in English.
- Experience with project management in a large magnet projects

**Work Management structure and Interfaces:**

- Reports to the Magnet Division Head.
- Interfaces with other departments as required by the magnet design, in particular with the CAD office and ITER configuration control.
- Interfaces with the Field Teams and their industries regarding magnet procurement.

**Authority/Approval Levels:**

- Has authority and approval levels generally defined by the tokamak DDG for his/her scope of work.

**Measures of Effectiveness:**

- Complete design of ITER TF coils.
- Completion of procurement package for TF windings.
- The timely procurement of the ITER TF coils within defined cost.