

TITLE: PF COIL GROUP LEADER Tokamak / Magnets		TKM 008
REPORTS TO LINE MANAGER: Magnet Division Head		
DIRECT EMPLOYMENT: NOT REQUIRED		GRADE RANGE: P4 ~P5
DATE WRITTEN: October , 2006	DATE REVISED: DECEMBER 6, 2006	DATE REVISED:

Purpose:

Manage the ITER PF coil group: design and procurement of the ITER PF coils, including work organisation, schedules, interfaces to ITER participants responsible for procurement and their industries.

Major Duties/Responsibilities:

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

Qualifications Required:

- Advanced university degree (DrIng or PhD) in engineering or physics (mechanical or electrical)
- At least 10 years post graduate experience, 5 of them specifically in coil design, analysis and manufacturing, covering high voltage electrical engineering issues.
- 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 project

Work Direction and Interfaces:

Reports to the Magnet Division Head. Interfaces with other departments as required by the magnet design, in particular to 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:

Completes the design of ITER PF coils and all procurement packages for PF components. Responsible for timely procurement of the ITER PF coils to within defined cost.