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Ref. IO1130 - 6/1/2011

Toroidal Field Coil Section Leader - TKM-004

Main job	Mechanics
Department	DIP/Directorate for Tokamak
Division	TKM / Magnet Division
Section	TKM / MAG / TF Coil Section
Job Family	Project engineering
Application Deadline	03/Jul/2011
Grade	P5
Direct employment	Not required
Purpose	To coordinate the ITER Toroidal Field (TF) Coil Section activities for the design and procurement of the ITER TF coils. As Section Leader, this implies also supervising the work organization, schedules, interfaces to ITER participants responsible for procurement and their industries, etc.
Main duties / Responsibilities	<p>Provides effective leadership for the ITER TF Coil Section, ensuring that team members are motivated;</p> <p>Develops the TF coils for their construction, monitors the Research & Development (R&D) in institutes and industry, ensures the results are implemented in the design, ensures proper qualification testing of the design is implemented at appropriate points during the manufacturing;</p> <p>Monitors the TF coil manufacturing, ensures that quality controls are properly implemented, takes effective action when quality problems are found;</p> <p>Prepares and maintains TF coil documentation, including design and analysis, drawings, etc.;</p> <p>Oversees and contributes to design work on the TF coils, maintaining update controls on drawings and CAD models, and issuing TF coil drawings;</p> <p>Responsible for the TF winding pack, TF structures, Pre-compression Rings and Coil Supports procurement follow up, including where appropriate supervising the TROs;</p> <p>Monitors TF coil procurement costs, time scales and resources planned/used;</p> <p>Highlights potential delays in time for corrective actions to be applied;</p> <p>Reports on the TF Coil Section activities;</p> <p>Maintains a strong commitment to the implementation and perpetuation of the ITER Safety Program, values and ethics.</p>
Measures of effectiveness	<p>Ensure the quality of the ITER TF coils during procurement;</p> <p>Foresee and ensure the timely resolution of manufacturing issues;</p> <p>Responsible for timely procurement of the ITER TF coils within defined cost.</p>
Level of study	Master or higher degree
Diploma	Engineering (mechanical or electrical) or Physics
Level of experience	At least 10 years
Technical experience	At least 10 years' experience, 5 of them specifically in coil design, analysis and manufacturing, covering high voltage electrical engineering issues;

Experience in manufacturing (forming and welding) of large metallic structures;

Good knowledge of all aspects of cryogenic coil design.

Experience with manufacture and/or operation of superconducting magnet systems

Familiar with features of low temperature superconductors

Project experience 5 to 7 years

Social skills Ability to work effectively in a multi-cultural environment
Ability to work in a team and to promote team spirit

General skills MS Office standard (Word, Excel, PowerPoint, Outlook)

Specific skills Project experience: At least 5 years' experience with project management in a large magnet project.

People Coordination experience: At least 5 years' supervising experience on a wide range project in the area of plant design/ construction.

Languages English (Working)

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