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Ref. IO1546 - 6/16/2015

Magnet Assembly Engineer TED-007

Main job	Mechanics
Department	TED / Tokamak Engineering Department
Division	TED / Magnet Division
Section	TED / MAG / TF Coil Section
Job Family	Coordinating Engineer
Application Deadline (MM/DD/YYYY)	07/08/2015
Grade	P4
Direct employment	Not required
Purpose	To manage the Toroidal Field (TF) Coils assembly. To coordinate IO assembly technicians & contracts, performing engineering interface support to the TF Coil Section activities and related manufacture monitoring.
Main duties / Responsibilities	Is responsible for driving some main on site assembly activities and writing detailed assembly procedures and control plans of the TF coils at ITER premises, maintaining the schedule and implementing the quality control programme; Assists the coils technical Responsible Officer in the execution and follow-up of on site and Domestic Agencies dimensional procurement acceptances; Supervises some on site IO assembly team & contracts to support and execute main installation procedures; Provide expertise and follow up into coils assembly tooling proof test, installation of coils parts and interfaces, welding of large steel components; Contributes to analysis to confirm interface tooling design on TF coils and the follow-up of the procurement packages of tooling related to magnet assembly; Performs some tolerance analysis and structural assessment so as to define and verify the integration of some intermediate coil assembly phases; Reviews and monitors TF coils assembly tooling qualification and production readiness phase activities; Optimizes the assembly procedures, tool design to minimize fabrication costs while satisfying performance and quality control requirements; Participates in the monitoring of the coil case delivery to the winding companies and the insertion of the winding packs into the case; Takes part in the TF integration and assembly reviews, including tolerance definition and internal magnet interfaces to the TF winding pack and external supports; Coordinates and contributes as technical support within the TF section to maintain and assembly document the internal and external interfaces; Oversees updates of the TF assembly tool and coils (CAD) models in line with the suppliers' model updates and review of the related manufacture drawings; Performs other duties in support of the project schedule as described in the Detailed Work Schedule and the Strategic Management Plan & upon management request;
Measures of	May be requested to belong to any project team dealing
effectiveness	with above activities and perform other duties upon management request; Maintains a strong commitment to the implementation and perpetuation of the ITER Safety Program, values and ethics.

Reports to Toroidal Field Coil Section Leader;

	Acts as an interface between other Sections in the Magnet Division and other Divisions in the Department; Interfaces with other Departments as required by the magnet design, in particular with the CAD office; Coordinates assembly technicians to install coils support components and main TF sectors; Interfaces with the Domestic Agencies' technical responsible officers and their industries regarding fabrication; In response to requests from the Director-General and/or Head of Tokamak Engineering Department (TED), or proactively, informs the DG/ Head of TED of any important and urgent issues that cannot be handled by the concerned line management and may jeopardize the achievement of the Project's objectives. Timely generation of TF coils assembly procedures, review of coils manufacture dossiers, tooling design files within agreed cost; Execution of TF coil and Magnet supports in a timely manner within defined costs; Coordinate efficiently an assembly team and obtain expected results; Successfully generates and maintains accurate, coherent, comprehensive and understandable documentation; Maintains effective communication within the ITER Organization. Project Construction Phase
Level of study	Master or equivalent degree
Diploma	Mechanical Engineering or relevant discipline
Level of experience	At least 10 years
Technical experience/knowledge	Good knowledge of metal forming techniques such as forging, casting, rolling and TIG, MIG welding; Good knowledge and experience of machining, non- destructive testing (NDT) techniques and applicable codes such as ultrasonic and radiographic inspection methods; Good knowledge of structural design (analysis techniques, structural assessment, design packages applying the RCC- MR and ASME compliance conventional codes;
	10 years' experience in the assembly design and manufacture of large mechanical components (forming and welding methods) and/or nuclear devices; Experience in assembly work and heavy duty handling of large structure with tight tolerances; Experience in coordinating the activities of an assembly team and set objectives.
Social skills	Ability to work effectively in a multi-cultural environment Ability to work in a team and to promote team spirit
Specific skills	MS Office standard (Word, Excel, PowerPoint, Outlook)
General skills	Ability to both work in a team and supervise a group of
	Ability to communicate clearly and write technical reports and specifications in English.
Others	Good command of the Microsoft Office package.
Languages	English (Fluent)

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