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JOB DETAIL

Ref. IO1699 - 4/14/2016

Magnet Engineer TED-056

Main job	Mechanics
Department	TED / Tokamak Engineering Department
Division	TED / Magnet Division
Section	TED / MAG / CS & Correction Coil Section
Job Family	Engineer - 1
Application Deadline (MM/DD/YYYY)	05/15/2016
Grade	P2
Direct employment	Required
Purpose	To assess the Central Solenoid (CS) and Correction Coils (CC) procurement and quality control documents. To participate in the CS and CC coil manufacturing design, approving of manufacturing drawings and maintaining consistency with the ITER approved models and drawings. To monitor for all magnet areas of design model quality and work organization, preparing work orders and supervising/supporting contract designers. To follow up for all magnet areas manufacturing change requests, ensuring they are implemented in the ITER configuration control models. To monitor the status / progress of CS and CC procurement activities. To prepare assembly procedures and participate in assembly activities.
Main duties / Responsibilities	• Follows up the procurement for the CS and CC coils, in the technical areas of High Voltage insulation, vacuum / cryogenic technology, superconductivity; • Assesses and corrects CS and CC coil manufacturing procedures, manufacturing and inspection plans and quality control documentation; • Contributes to the administration of magnet design office by liaising with Design Office, prepares work orders, advises with specialized knowledge of magnet design; • Follows manufacturing change requests with the Domestic Agencies and their suppliers throughout magnet procurement area, ensures changes are recorded and implemented into ITER Organization approved Catia models, liaises with CAD & Design Coordination Division; • Prepares CS and CC assembly and inspection plans and associated procedures; • Contributes to the design and procurement of CS and CC shipping and assembly tools; • Prepares the assembly activities; • Performs other duties in support of the project schedule as described in the Detailed Work Schedule and the Strategic Management Plan; • May be requested to be part of any of the project team and performs other duties upon management request; • Maintains a strong commitment to the implementation and perpetuation of the ITER Safety Program, values and ethics. • Reports to CS and CC Section Leader; • Interfaces with members in other sections in the Magnet Division, with other departments as required by operation of the Catia system and integration of the magnet design, and with the Domestic Agencies and their industries regarding manufacturing drawings and change monitoring; • In response to requests from the Director-General and/or Head of Tokamak Engineering Department (TED), or proactively, informs the DG/ TED Head 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.
Measures of effectiveness	• Efficient tracking of magnet manufacturing changes in DAs and maintaining up to date ITER approved Catia models; • Contributes efficiently to provide good quality CAD models and drawings;

	• Preparation of Assembly and Inspection Plans for CS assembly Ensures CS and CC coil procurement is properly monitored during fabrication within the defined quality, cost and schedule; • Contributes efficiently to assessment of CS & CC coil manufacturing procedures. Project Construction Phase
Level of study	At least Master's Degree or equivalent
Diploma	Mechanical Engineering or other related discipline
Level of experience	At least 5 years
Technical experience / knowledge	– Knowledge of superconducting coil design and manufacture; – Knowledge of high voltage insulation methods. – At least 5 years' experience as a technical designer or project engineer in a large multidisciplinary project or institute; – Experience with welding and Non Destructive Testing procedures; – Familiarity with mechanical design codes and standards such as ASME or EN; – Experience in supervising fabrication of components in industry. – Industrial manufacturing experience is required.
Project experience	1 to 2 years
Social skills	Ability to work effectively in a multi-cultural environment Ability to work in a team and to promote team spirit
Specific skills	CATIA MS Office standard (Word, Excel, PowerPoint, Outlook)
General skills	– Demonstrated ability to write good quality technical reports.
Others	–Good familiarity with the Catia CAD system; –Good command of the Microsoft Office package.
Languages	English (Fluent)

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