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JOB DETAIL

Ref. IO1728 - 6/24/2016

Magnet Structures Engineer - TED-074

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)	07/24/2016
Grade	P4
Direct employment	Not required
Purpose	<p>An experienced Structures Engineer who will initially contribute to the management of procurement arrangements related to Magnet Supports, Pre-Compression Rings and Toroidal Field (TF) Coil Case structures, and will then work on the mechanical aspects of the coil assembly.</p> <p>-Is responsible for the monitoring of the fabrication of some TF related structures at Domestic Agency (DA) premises, maintaining the schedule and implementing the quality control programme;</p> <p>-Contributes to design activities and the follow up of the procurement packages related to Magnet Supports, Project Change Requests (PCRs) and TF coils structures for the TF coil manufacturing;</p> <p>-Ensures interfaces are defined with the supplying Domestic Agencies and are consistent with the TF system requirements;</p> <p>-Supervise thermal and structural assessment analysis, check accuracy of the analyses, provide structural and thermal assessment reports and implement modification if required;</p> <p>-Implementation of appropriate quality control requirements on the procurements, in collaboration with the Central Integration Office;</p>
Main duties / Responsibilities	<p>-Participates in the monitoring of the coil case delivery to the winding companies and the insertion of the winding packs into the case;</p> <p>-Tolerance definition and internal magnet interfaces to the TF winding pack and external supports;</p> <p>-Oversees updates of Computer Aided Design (CAD) models in line with the suppliers' model updates and review of the related manufacture drawings;</p> <p>-Preparation of procedures and assembly drawings related to the structures, PCRs, and supports and the associated interface components and tooling. Tolerance definition and mitigation;</p> <p>-Supervision of assembly activities related to the structures, supports, PCRs and interface components;</p> <p>-Set up mock-ups related to assembly activities and develop small scale special tooling if needed;</p> <p>-Preparation/execution of risk assessment and mitigation plans for procurement and assembly activities</p> <p>-Performs other duties in support of the project schedule as described in the Detailed Work Breakdown Structure Schedule or Strategic Management Plan;</p> <p>-May be requested to be part of any of the project teams and perform other duties upon management request;</p> <p>-Maintains a strong commitment to the implementation and perpetuation of the ITER Safety Program, values and ethics.</p> <p>-Reports to the TF coil Section Leader;</p> <p>-Interfaces with other sections in the Magnet Division, in particular those responsible for structural performance assessment; with other departments as required by the magnet design, in particular with the CAD Office; with the DAs and their industries regarding fabrication;</p> <p>-In response to requests from the Director-General (DG) and/or Tokamak Engineering Department (TED) Head, or</p>

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	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	-Completes in a timely manner some assigned tasks on the design of TF structures within the defined schedule; -Reports to section line management progress and outcomes of assigned tasks; -Provides qualification assembly procedures and QC testing of TF structure elements during fabrication; -Provides review of manufacture drawings on time, reporting outcomes to TROs -Manages some change requests impacting TF structures schedule.
	Project Construction Phase ID SAP 50000962
Level of study	At least Master's Degree or equivalent
Diploma	Mechanical Engineering field
Level of experience	At least 10 years
Technical experience/knowledge	- Extensive experience in similar jobs (involving similar work responsibilities) and/or additional training certificates in relevant domains may be considered as a part substitute for the required educational degree.  -Knowledge of structural analysis, material properties and failure modes; -Knowledge of machining and welding techniques; -Knowledge of large scale mechanical assembly procedures; -Knowledge of electrical insulation techniques such as vacuum impregnation;  -At least 10 years' experience in cryogenic coil design; -Familiarity with analysis procedures for magnetic field coils; -Familiarity with mechanical design codes and standards such as ASME; -Experience in supervising coil fabrication in industry; -Good Project Management experience is required.
Social skills	Ability to work effectively in a multi-cultural environment Ability to work in a team and to promote team spirit
Specific skills	Ansys
Others	-ANSYS basics required,
Languages	English (Fluent)