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JOB DETAIL

Ref. IO1687 - 4/14/2016

Manufacturing Engineering Technician TED-068

Main job	Mechanics
Department	TED / Tokamak Engineering Department
Division	TED / Vessel Division
Section	TED / VV / VV/Ports & Thermal Shield Section
Job Family	Coordinating Technician
Application Deadline (MM/DD/YYYY)	05/15/2016
Grade	G5
Direct employment	Required
Purpose	To perform structural and thermal analysis to justify manufacturing design and non-conformity during manufacturing; To support management of documentations and section activities; To contribute factory and site acceptance tests for all components of the Vacuum Vessel (VV) including visual inspection, helium leak test, unpacking, etc.
Main duties / Responsibilities	• Performs structural and thermal analysis for the Vacuum Vessel (VV) components to justify their integrity during manufacturing design and manufacturing due to non-conformity; • Performs reporting on justification results to submit the Agreed Notified Body in order to get agreement and approval for implementation; • Coordinates management of documentations in ITER document management system of all the VV documents; • Supports document management for manufacturing, assembly and licensing for the VV torus; • Supports assembly activities in site and pit; • Supports communication inside of the VV project team between ITER Organization (IO)-central team and IO-domestic agencies (DAs) for document control and meeting organization, etc; • Prepares Site Acceptance Tests (SAT) for all Vacuum Vessel (VV) components including free issued items; • Develops test procedures for Factory Acceptance Tests (FAT) and Site Acceptance Tests (SAT) such as pressure test, baking, leak test, dimensional measurement, etc; • Reports results of Factory Acceptance Tests (FAT) and Site Acceptance Tests (SAT) to management and the agreed notified body; • Supports management activities of the Vacuum Vessel (VV) sections; • Performs other duties in support of the project schedule as described in the Detailed Work Schedule; • May be requested to be part of any of the project teams 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 VV/Ports & Thermal Shield Section Leader; • Interfaces with all other sections in the ITER Organization and DAs as required; • 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	• Provides effective structural and thermal analysis for manufacturing design and justification of non-conformities; • Provides effective support for the timely completion of the detailed design and procurement activities; • Attains good simulation results to validate the detailed design of components and systems; • Establishes a good collaborative relationship with all members of the Tokamak Departments.

	Project Construction Phase
Level of study	At least Bachelor's degree or equivalent
Diploma	Mechanical field or equivalent
Level of experience	At least 7 years
Technical experience/knowledge	– Knowledge of structural design code (such as ASME or RCC-MR). – At least 7 years' experience in a similar position in a large multidisciplinary project; – Experience in ANSYS analysis; – Experience in using 3-D Model and 2-D CAD.
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 Computer Aided Design
General skills	– Demonstrated ability to produce high quality results; – Excellent organizing skills and co-ordination skills with the ability to set priorities and meet deadlines; – High level of reliability and dependability.
Others	– Good knowledge of CAD systems (particularly CATIA V5).
Languages	English (Fluent)

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