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JOB DETAIL

Ref. IO1568 - 8/24/2015

Tolerance Studies Engineer CIO-008

Main job	Design
Department	CIO/ Central Integration Office
Division	CIO / Design Integration Section/Division
Job Family	Engineer - 1
Application Deadline (MM/DD/YYYY)	09/20/2015
Grade	P2
Direct employment	Not required
Purpose	To perform Design Integration activities, including 3D Tolerance Variation Studies. • Performs 3D dimensional variation studies to support the integration of mechanical and plant systems;
Main duties / Responsibilities	• Updates, optimizes and manages the 3DCS Tokamak Dimensional Variation Model; • Performs traceability assessment between model inputs and functional/interface requirements, part tolerances and assembly processes; • Contributes to the identification, definition and review of functional tolerance features (callouts and datums); • Supports Design Integration in the assessment of non-compliances and integration risk issues for mechanical and plant systems; • Performs impact and tolerance mitigation studies according to Deviation Requests and Non-Conformities; • Supports Design Integration to prepare tolerance assessment reports; • Performs clash detection studies; • Supports Design Integration to solve problems related to integration processes; • Provides support to organize ITER technical meetings; • Performs other duties in support of the project schedule as described in the Detailed Work Schedule or Strategic Management Plan; • May be requested to be part of any of the project team dealing with the 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. • Under the supervision of the Project Coordinator for Tolerance Studies, reports to the Design Integration Section/Division Head; • Interfaces closely with the Construction Department, Tokamak Engineering Department and other ITER Departments, to ensure interface and tolerance-positioning issues are identified and resolved in a timely manner; • Interacts with the Project Teams and Domestic Agencies for all matters relating to Tokamak Integration; • In response to requests from the Director-General and/or Central Integration Office (CIO) Head, or proactively, informs the DG/CIO 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	• Enhances and manages in a full exhaustive manner the definition of the Tokamak Tolerance Model (e.g. all major defined tolerance studies completed); • Develops appropriate and understandable Tolerance reports highlighting specific CIO requirements for the

	success of the Project ; • Manages and resolves interface tolerance issues following deviation requests or non-conformity reports during the construction phase of the Tokamak with avoiding risk of assembly/operation non-compliance; • Manages the Tokamak as-built configuration with respect to construction intermediate and final dimensions, together with assembly final positioning of components; • Completes Tolerance studies during construction and Assembly phase in a timely manner. Project Construction Phase
Level of study	At least Master's Degree or equivalent
Diploma	Mechanical Engineering field or other
Level of experience	At least 5 years
Technical experience / knowledge	At least 5 years' experience covering the following topics: - Tolerance modelling and analysis of complex 3D systems using dimensional variation software in combination with CATIA; - Geometric Dimensioning & Tolerancing, based on ISO or ASME standards; - Statistical data management, including processing of large amount of data using Excel; - Specific design, construction and assembly aspects of Tokamak systems should be highly advantageous; - Integration of large projects scientific and/or nuclear projects, involving large mechanical components and structures would be an advantage.
Social skills	Ability to work effectively in a multi-cultural environment Ability to work in a team and to promote team spirit
General skills	– Excellent capability to interact with experts from different disciplines; – Proficiency in 3D CAD software & CATIA V5; – Good command of the Microsoft Office package.
Languages	English (Fluent)

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