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JOB DETAIL

Ref. IO1691 - 4/14/2016

Diagnostic Port Integration Officer TED-062

Main job	Diagnostics
Department	TED / Tokamak Engineering Department
Division	TED / Port Plugs & Diagnostics Integration Division
Section	TED / PPD / Common Port Plug Engineering Sub-Section
Job Family	Engineer - 2
Application Deadline (MM/DD/YYYY)	05/15/2016
Grade	P3
Direct employment	Not required
Purpose	To develop port integration and integration of port-based diagnostic systems with ITER Organization (IO) and Domestic Agencies (DAs). To follow-up the technical work of port integration between IO and DAs and with other interfaces. To identify requirements and interfaces for Diagnostic Ports under integration to ensure engineering and maintenance solutions for the tenant systems.
Main duties / Responsibilities	• Identifies requirements and interfaces for Diagnostic Ports under integration to ensure engineering and maintenance solutions for the tenant systems and services; • Develops the integration of port-based diagnostics inside diagnostic ports (upper, equatorial and lower) both at ITER Organization (IO) and with Domestic Agencies (DAs); • Prepares technical specifications and documents as required in preparation for Diagnostic Shield Modules, Lower Port Diagnostic Racks and Port Cell structures manufacturing for IO-owned ports; • Leads analysis of mechanical and thermal stresses, stresses due to electro-magnetic forces, dynamic analysis, neutronics assessment for integrated ports; • Coordinates the design of diagnostic port interfaces with main tokamak interfaces (vacuum, cooling, buildings, remote handling etc); • Follows-up and uses project engineering tools for the procurement of diagnostic ports with industry; • Prepares for the installation of the diagnostic ports on ITER; • Updates and takes through review all relevant supporting engineering documents; • Supports or leads the Design Review processes, as appropriate; • Checks and maintains relevant ITER databases; • Reports variances on all technical, cost and schedule aspects immediately to the Sub-Section Leader/Division Head; • Supports effective risk identification and management; • Manages the change control process for his/her scope of work and communicates changes to the line management; • Maintains related documentation at all times on the ITER Document System and ensure it is updated and in the correct formats. • 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 and performs other duties upon management request; • Maintains a strong commitment to the implementation and perpetuation of the ITER safety program, values and ethics.
Measures of effectiveness	• Reports directly to the Common Port Plug engineering Sub-Section Leader; • Interfaces with other ITER Technical Departments, as required; • Maintains communication with other organizations within the ITER collaboration and the fusion community; • Ensures integration with other technical interfaces;

	• 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. • Work packages completed to agreed deadlines; • Developed and approved interface documentation, schematics plans and databases; • Developed and approved technical documentation for procurement; • Developed and approved installation plans; • Successful collaborates with technical partners in Domestic Agencies and other Directorates at ITER Organization (IO); • Efficient work at all times with other Diagnostics team members. Project Construction Phase
Level of study	At least Master's Degree or equivalent
Diploma	Mechanical engineering or in nuclear engineering
Level of experience	At least 8 years
Technical experience / knowledge	– At least 8 years' experience in diagnostic engineering (incl. 3 in project/ system engineering); – Experience in a nuclear-relevant field; – Experience in mechanical engineering design for integrated tokamak systems; – Experience in application of recognized engineering codes and standards; – Experience in manufacturing of diagnostic components; – Experience with the technical follow-up of CAD activity; (Familiarity with CAD oversight; Familiarity with P&I Diagrams) – Proven planning and costing ability for mechanical systems; – Organization and design defense lead in technical design reviews; – Ability to generate specifications for procurement and manufacturing follow-up.
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	– Proven presentation writing skills.
Languages	English (Fluent)

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