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Ref. IO1827 - 3/8/2017

Diagnostic Responsible Officer - TED-097

Main job	Diagnostics
Department	TED / Tokamak Engineering Department
Division	TED / Port Plugs & Diagnostics Integration Division
Section	TED / PPD / Common Port Plug Engineering Section
Job Family	Coordinating Engineer
Application Deadline (MM/DD/YYYY)	04/23/2017
Grade	P4
Direct employment	Not required
Purpose	To develop and coordinate diagnostic Protection Important Component/ Safety Importance Class (PIC/SIC) components and associated designs, procurement (e.g. diagnostic windows, feedthroughs). To follow-up integration of PIC/SIC components within diagnostic ports. To provide engineering solutions that fulfils regulatory requirements.
Main duties / Responsibilities	-Identifies requirements and interfaces for diagnostic PIC/SIC components with port integrators at IO and Domestic Agencies (DAs) to ensure common engineering and maintenance solutions for the integrated ports; -Develops the design of diagnostic PIC/SIC components for systems located in lower, equatorial and upper ports; -Leads the development of tools to maintain the PIC/ SIC components in a safe state; -Prepares technical specifications and documents as required in preparation for manufacturing of diagnostic PIC/SIC components and associated tooling; -Follows up the procurement of diagnostic PIC/SIC components with industry; -Leads analysis of mechanical and thermal stresses, stresses due to electro-magnetic forces, dynamic analysis, neutronics assessment for diagnostic PIC/SIC components; -Leads the development of operational and safety procedures for PIC/ SIC components; -Supports on-going diagnostic design and port integration activities and helps to integrate these designs; -Updates and takes through review all relevant supporting engineering documents; -Supports or leads the Design Review processes, as appropriate; -Checks and maintains relevant ITER Organization (IO) databases; -Reports variances on all technical, cost and schedule aspects immediately; -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 IO Document System and ensures it is updated and in the correct formats. -Performs other duties in support of the project schedule; -May be requested to be part of any of the project/construction teams and to perform other duties; -Maintains a strong commitment to the implementation and perpetuation of the ITER Safety Program, values and ethics. -Reports directly to the Common Port Plug engineering Section Leader;
Measures of effectiveness	-Interfaces with other ITER Technical Directorates, as required; Ensures integration with other technical interfaces; -Maintains communication with other organizations within the IO collaboration and the fusion community; -In response to requests from the Director-General and/or Tokamak Engineering Department (TED) Head, 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 and costs; -Developed and approved accurate interface documentation, schematics plans and databases; -Developed and approved high quality technical documentation for procurement; -Developed and approved installation plans within the defined schedule and cost; -Successful collaboration with technical partners in

	Domestic Agencies and other Directorates at IO; -Efficient work at all times with other Diagnostics team members. Project Construction Phase
Level of study	Master or equivalent degree
Diploma	Mechanical engineering or equivalent
Level of experience	At least 10 years
Technical experience/knowledge	-Master's degree or equivalent in mechanical engineering or equivalent; -PhD is considered as an advantage; -Extensive experience in similar jobs (involving similar work responsibilities) and/or additional training certificates in relevant domains may be considered a reasonable substitute for the required educational degree. -At least 10 years' experience in mechanical engineering, incl. 2 in project engineering (or 8 years for PhD holders); -Experience in a nuclear-relevant field; -Experience in manufacturing of mechanical components; -Experience in mechanical engineering design of PIC/SIC components; -Experience in application of recognized engineering codes and standards to design and manufacturing of PIC/SIC components; -Experience with the technical follow-up of CAD activity (e.g. CAD oversight; P&I Diagrams)
Social skills	Ability to work effectively in a multi-cultural environment Ability to work in a team and to promote team spirit
Specific skills	Computer Aided Design MS Office standard (Word, Excel, PowerPoint, Outlook)
General skills	-Proven project management skills, in particular 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.
Others	-Proven presentation writing skills; -Track record of first author publications in English is a plus. -Familiarity with CAD tools for diagnostic components drawings;
Languages	English (Fluent)

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