

IO1427 Fuelling System Engineer PSE-141

General information

Job category	Standard
Status	Published
Department	DIP/Department for ITER Project
Division	PSE/Plant Engineering Division
Section	PSE/ FCED/ Fuelling & Wall Conditioning Section

Job description

Main job	Engineering - Mechanics
Title of the position	Fuelling System Engineer PSE-141
Job family	Engineer - 2
Grade	P3
Direct employment	Not required
Purpose	<p>To coordinate and integrate the activities for R&D, design, procurement, installation and commissioning of the ITER Disruption Mitigation System (DMS) and the Pellet Injection System (PIS) over their life cycle.</p> <p>To ensure proper design, manufacturing, testing, installation and commissioning activities of DMS and PIS through systems engineering processes.</p> <p>To manage the DMS and PIS integration issues specifically relating to the port plug integration for the DMS and the Quality Program for Protection Important Components (PIC) and safety functions.</p> <p>To manage functional and physical interfaces with other systems and develop DMS and PIS operation and maintenance plans.</p>
Main duties / Responsibilities	<p>Responsible for R&D, design and qualification of DMS and PIS;</p> <p>Responsible for establishing and maintaining requirements for DMS and PIS and for their interfaces;</p> <p>Responsible for development and updating of the design, and for Functional Analysis of the DMS and PIS;</p> <p>Responsible for preparing, maintaining and communicating design documents;</p> <p>Follows up design, manufacturing, testing, installation and commissioning activities of DMS and PIS, including those performed by the Domestic Agencies (DAs) and their contractors;</p> <p>Integrates the DMS in diagnostics port plugs and port interspaces, the PIS flight tubes in the VV and the PIS casks in port cells;</p> <p>Ensures the design, development and scheduling of DMS and PIS, including controlling functional and physical interfaces of DMS and PIS with other systems and components;</p> <p>Provides support in licensing activities and DMS and PIS hazard analysis;</p> <p>Follows and maintains the schedule for the DMS and PIS;</p> <p>Provides technical support within the FWC section to maintain and document the internal and external interfaces respectively for the DMS and PIS;</p> <p>Performs other duties in support of the project schedule as described in the Detailed Work Schedule or Strategic Management Plan;</p> <p>Performs other duties linked to the above purpose upon management request, as necessary;</p> <p>Maintains a strong commitment to the implementation and perpetuation of the ITER Safety Program, values and ethics.</p> <p>Reports to the Fuelling and Wall Conditioning Section Leader;</p> <p>Acts as an interface between other groups in the Fuel Cycle Engineering Division regarding drawings and CAD administration;</p> <p>Interfaces with other Departments/Directorates as required by the fuelling system design, in particular with the CAD & Design Coordination Division;</p> <p>In response to requests from the Director-General (DG) and/or Director of Plant System Engineering (PSE) Directorate, or proactively, informs the DG/Director of any important and urgent issues that cannot be handled by the concerned line management and may jeopardize the</p>

Measures of effectiveness	achievement of the Project's objectives.
	<p>Clarity and thoroughness of documents on R&D, design, fabrication, installation and commissioning of the DMS and PIS;</p> <p>Quality and timeliness of work products throughout the all phases of the DMS and PIS;</p> <p>Ability to find practical, cost-effective, manageable and efficient solutions to issues;</p> <p>Establishment of mechanisms for DMS and PIS integration and interfaces with other ITER systems;</p> <p>Quality of communication with personnel associated with interfacing systems and management;</p> <p>Ability to work effectively in teams and contribute to the overall success of the Fuel Cycle design/build project;</p> <p>Performing work safely and with regard for safety in designs;</p> <p>Maintaining effective communication with all interfacing system Responsible Officers of the IO and the DAs on tokamak fuelling, disruption mitigation and relating physics issues.</p> <p>Project Construction Phase</p> <p>ID SAP: 50000046</p>

Applicant criteria

Level of study	Master or equivalent degree
Diploma	Mechanical, nuclear or process eng. or other
Level of experience	At least 8 years
Technical experience	<p>At least 8 years' experience in managing the design, construction, installation, commissioning and operation of vacuum, cryogenic or gas handling systems;</p> <p>Appropriate experience in managing a project.</p>
Social skills	Ability to work effectively in a multi-cultural environment , Ability to work in a team and to promote team spirit
General skills	<p>Knowledge of hydrogen safety, nuclear licensing, cryogenic system, vacuum pumping system or plasma physics would be advantageous.</p> <p>MS Office Visio knowledge.</p>
Languages	English (Working)
Specific skills	MS Office standard (Word, Excel, PowerPoint, Outlook)
Others	Familiarity to CAD tools would be an advantage.