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JOB DETAIL

Ref. IO1430 - 10/2/2014

Tritium Plant System Engineer PSE-158

Main job	Chemical engineering
Department	DIP/Department for ITER Project
Division	PSE/Fuel Cycle Engineering Division
Section	PSE/ FCED/ Tritium Plant Section
Job Family	Engineer - 2
Application Deadline	10/29/2014
Grade	P3
Direct employment	Not required
Purpose	To advance systems designs to completion, and to follow-up fabrication and installation. To manage Tritium Plant loop functions and requirements, and interfaces within the loop and to external systems using a disciplined (systems engineering) approach. To integrate elements of the Tritium Plant loops through value engineering and trade off studies; identifying & managing risks and supporting decision making processes over their life cycle. Background information: The ITER Tritium Plant processing loop consists of different processing systems to store and to supply gases for machine operation, to purify hydrogen isotopes and to remove tritium from tritiated species, and to separate hydrogen isotopologues. The systems operate in an exceedingly integrated fashion and are highly interdependent.
Main duties / Responsibilities	Responsible for Functional Analysis and optimization of Tritium Plant loop requirements and design solutions considering safety, risks, costs, and other constraints; Responsible for compiling and maintaining design basis documentation and supporting documents using formal review procedures for the Tritium Plant loop; Manages Tritium Plant loop functional and physical interfaces insuring systems consistency and that the design results in harmonized, practical operation; Develops operational strategies and design configurations over the HH/He, DD and DT phases of ITER, including operations and maintenance plans for the Tritium Plant loop; Develops and establishes installation, testing, and commissioning plans considering the ITER Research Plan; Provides support for safety basis development and documentation; Contributes to Fuel Cycle modelling; Works effectively with system responsible officers and other team members; Performs other duties in support of the project schedule as described in the Detailed Work Schedule and the Strategic Management Plan; Performs other duties linked to the above purpose upon management request, as necessary; Maintains a strong commitment to the implementation and perpetuation of the ITER Safety Program, values and ethics. Reports to the Tritium Plant Section Leader; Interfaces through the Fuel Cycle Engineering Division Head with other Fuel Cycle groups; 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 achievement of the Project's objectives.
Measures of	Clarity and thoroughness of documents;

effectiveness	Quality and timeliness of work products; Ability to find practical, cost-effective, manageable and efficient solutions to issues; Quality of communication with personnel associated with interfacing systems and management; Ability to work effectively in teams and contribute to the overall success of the Fuel Cycle design/build project; Performing work safely and with regard for safety in designs. Project Construction Phase ID SAP: 50000272
Level of study	Master or equivalent degree
Diploma	Nuclear, Chemical Engineering or other relevant
Level of experience	At least 8 years
Technical experience	At least 8 years' experience in system engineering, integration, commissioning and operation of gas handling facilities; At least 5 years' proven success in complicated chemical processing system design and fabrication; Experience in systems comprising high integrity networks and components; Experience in gas handling, vacuum and pumping technologies; Experience in hydrogen and tritium processing systems and with nuclear facilities is desirable.
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	Very good understanding of gas processing technologies, vacuum technology, hazardous and radioactive material handling; Systems engineering training is desirable; Basic Project Management experience is required.
Others	Proven ability to write effective technical documents in English; Desirable knowledge on software for project management, CAD, document control and chemical process modeling.
Languages	English (Working)

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