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JOB DETAIL

Ref. IO1822 - 2/23/2017

Tritium Plant Engineer - PED-056

Main job Nuclear Power**Department** PED / Plant Engineering Department**Division** PED / Fuel Cycle Engineering Division**Section** PED / FCED / Tritium Plant Section**Job Family** Coordinating Engineer**Application Deadline**
(MM/DD/YYYY) 04/04/2017**Grade** P4**Direct employment** Not required

Purpose

- To perform and oversee the design and manufacturing of selected Tritium Plant sub-systems of ITER and the planning of integrated plant wide lifecycle aspect (i.e. testing, commissioning, operation, maintenance and decommissioning).
- The work involves identifying requirements and implementation, technical trade studies, system design, value engineering, interface management, control systems, document preparation, contract management and coordinating plant wide lifecycle planning.
- This is followed by fabrication and procurement of the designed system. Work is performed in a formal, quality assured environment consistent with a nuclear facility.

Main duties / Responsibilities

- Is responsible for functional analysis and optimization of the sub-system requirements and design solutions considering safety, risks, costs, and other constraints;
- Is responsible for coordinating and planning consistent plant wide approaches for the full plant lifecycle including testing, commissioning, operation, maintenance and decommissioning;
- Is responsible for compiling and maintaining design basis documentation and supporting documents using formal review procedures;
- Manages functional and physical interfaces insuring systems consistency and that the design results in harmonized, practical operation;
- Develops operational and maintenance tactical plans following established strategies;
- Develops and establishes installation, testing, and commissioning plans within agreed framework
- Provides support for safety basis development and documentation;
- As much of the design/build work is performed by contractors, duties include procurement input, and contract administration;
- 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.

Special notice: May be requested to work on beryllium-containing components. In this case, you will be required to follow the established ITER Beryllium Management Program for working safely with beryllium. Full training and support will be provided by the ITER Organization;

- Reports to the Tritium Plant Section Leader;
- Manages the System interfaces together with responsible officers for interfacing systems;
- Interfaces with DAs and contractors.

Measures of effectiveness

- In response to requests from the Director-General and/or Head of the Plant Engineering Department (PED), or proactively, informs the DG/Head of PED 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.

- Elaborates clear and thorough documents;
- Produces quality and timeless works;
- Finds practical, cost-effective, manageable and efficient solutions to issues;
- Communicates with personnel associated with interfacing systems and management;
- Performs work safely and with regard for safety in designs

Project Construction Phase
SAP ID: 50000953

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Level of study	Master or equivalent degree
Diploma	Nuclear, Chemical or Mechanical Engineering
Level of experience	At least 10 years
Technical experience/knowledge	<p>-Excellent understanding of integrating gas processing plant in a nuclear environment</p> <p>-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.</p> <p>-At least 10 years' experience relevant to industrial design, integration, commissioning and operation of gas treatment system of a nuclear facility;</p> <p>-Proven experience in large design/build projects through all phases, i.e. conceptual, preliminary and final design, followed by manufacturing, installation and commissioning;</p> <p>-Experience with tritium handling equipment and practices is advantageous;</p> <p>-Knowledge and practical experience with cryogenics, high vacuum and pumping technologies;</p> <p>-Experience in a systematic and controlled design process;</p> <p>-Ability to write clear, well-organized technical documents in English.</p> <p>-Good Project Management experience is required.</p>
Social skills	Ability to work effectively in a multi-cultural environment Ability to work in a team and to promote team spirit
Specific skills	CATIA Computer Aided Design MS Office standard (Word, Excel, PowerPoint, Outlook)
General skills	-Ability to provide line management with verbal and written reports -Ability to communicate and negotiate within a team environment
Others	- Ability to perform computer modeling of distillation and process control systems. -It is essential and high level appreciated CAD extensive knowledge in 2d / 3D with Tools as CATIA and AVEVA / PDMS.
Languages	English (Fluent)

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