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JOB DETAIL

Ref. IO1773 - 9/30/2016

Detritiation System Process Engineer - PED-079

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)	11/13/2016
Grade	P4
Direct employment	Required
Purpose	-To perform and maintain the process engineering design of the ITER Tritium Plant Detritiation System. The work involves leading the process design of the system in a rigorous and systematic manner considering functional and performance requirements, safety, risks, value engineering, interface management, and deliverable preparation. This is followed by fabrication and procurement of the designed system through an EPC contract. Work is performed in a formal, quality assured environment consistent with a nuclear facility.
Main duties / Responsibilities	-Is responsible for the process engineering design of the system meeting requirements and considering safety, risks, costs, and other constraints such as human factors; -Is responsible for compiling and maintaining process design basis documentation and supporting documents using formal review procedures; -Manages process functional and physical interfaces ensuring systems consistency and that the design results in harmonized and practical operation; -Owns the P&ID for the System and takes responsibility for the process sizing of unit operations and associated calculations and mass, energy and activity balances -Develops the operational and control scheme details of the system following established strategies -Ensures provisions for installation, testing, maintenance and commissioning are accommodated in the process design within agreed framework -Provides support for safety basis development and documentation; -Communicates effectively the process requirements to discipline engineers to allow them to develop detail component design, selection and configuration (for control systems) -As much of the final design/build work will be performed by an EPC contractor, duties include procurement input, and ongoing support as a member of the Delegated Design Authority of ITER -Performs other duties in support of the project schedule; -May be requested to be part of any of the project team and performs 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 Section Leader; -Interfaces through the whole Fuel Cycle Engineering Division;
Measures of effectiveness	-Acts as an interfaces between the ITER Sections and Divisions and with Domestic Agencies; -In response to requests from the Director-General and/or Head of Plant Engineering Department(PED), or proactively, informs the DG/Head of PED Department 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
Level of study	Master or equivalent degree
Diploma	in Chemical or Process Engineering
Level of experience	At least 10 years
Technical experience/knowledge	-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; -Good understanding of gas/liquid treatment processing technologies, e.g. gas discharge abatement technology such as absorptions towers; -At least 10 years' experience relevant to engineering design, integration and commissioning of complicated gas/liquid handling facilities; -At least 5 years' proven success in complicated chemical processing system design and fabrication; -Experience in large design/build projects through all phases, i.e. conceptual, preliminary and final design, followed by manufacturing, installation and commissioning; -Knowledge and practical experience of gas treatment processing technologies including detailed unit operation simulation and sizing;
Social skills	Ability to work effectively in a multi-cultural environment Ability to work in a team and to promote team spirit Good negotiation skills
Specific skills	Computer Aided Design MS Office standard (Word, Excel, PowerPoint, Outlook)
General skills	-Demonstrated ability to write clear, well-organized technical documents in English; -Experience in high category nuclear safety system design is desirable.
Others	-Ability to provide line management with verbal and written reports; -Ability to communicate and negotiate within a team environment. -Process Simulation Software, particular ASPEN
Languages	English (Fluent)

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