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JOB DETAIL

Ref. IO1823 - 2/23/2017

Cryogenic Lines Officer - PED-059

Main job	Cryogenics
Department	PED / Plant Engineering Department
Division	PED / Cooling Systems Engineering Division
Section	PED / CSED / Cryogenic System Section
Job Family	Engineer - 2
Application Deadline (MM/DD/YYYY)	04/04/2017
Grade	P3
Direct employment	Not required
Purpose	<p>-To lead in close collaboration with the Indian Domestic Agency, the cryolines project execution from its design phase to the commission phase.</p> <p>It covers the design, the procurement, the installation and testing of the cryoline system for the ITER tokamak;</p> <p>-This includes all sets of cryogenic transfer lines to connect with the magnets, the 80 K tokamak thermal shields and the cryo-vacuum pumps, including transfer lines for the cryoplant cold box building.</p>
Main duties / Responsibilities	<p>-Ensures that the project execution is aligned with the safety, technical and schedule requirements of the ITER project;</p> <p>-Organizes and coordinates supported by other Responsible officers, the various design reviews and actions follow up, recorded all along the project execution;</p> <p>-Develops the technical specifications and revision of the Project Integration documents related to the cryolines;</p> <p>-Revises and improves, or ensures it is done by corresponding experts, that the process diagrams and design interfaces of the cryolines with the cryoplant process boxes and all ITER cryogenic users, namely the magnets, the cryo-vacuum pumps and the 80 K thermal shields for the Tokamak;</p> <p>-Develops the detailed layout, internal design and routing of the cryolines inside both the tokamak and Cryoplant Cold Box buildings and between these two buildings;</p> <p>-Develops the programs and schedules (assembly sequence) to build, test and commission the cryoline system;</p> <p>-Develops the technical specification related to the cryolines installation in the tokamak complex</p> <p>-May be required to work outside normal working hours, including nights, weekends and public holidays;</p> <p>-Performs other duties in support of the project schedule;</p> <p>-May be requested to be part of any of the project/construction team and perform other duties;</p> <p>Maintains a strong commitment to the implementation and perpetuation of the ITER safety program, values and ethics.</p> <p>-Reports to Cryogenic System Section Leader;</p> <p>-Acts as an interface between magnets, thermal shields, the cryopumps and the cryoplant;</p> <p>-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.</p>
Measures of effectiveness	<p>-Defines and implements the concept of the cryolines and cryodistribution system within the defined cost and schedule;</p> <p>-Manages efficiently interfaces between the cryogenic system and cryogenic users;</p> <p>-Manages plans for installation, tests commissioning and operation within the defined cost and schedule;</p> <p>-Maintains an effective communication with all parties delivering the subsystem.</p> <p>Project Construction Phase SAP Id: 50001177</p>
Level of study	Master or equivalent degree
Diploma	Mechanical Eng, Cryogenics, or other discipline
Level of experience	At least 8 years
Technical experience/knowledge	<p>-Proficiency in the design codes and standards;</p> <p>-Excellent knowledge of fabrication, welding and leak testing techniques;</p> <p>-Extensive experience in similar jobs (involving similar</p>

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work responsibilities) and/or additional training certificates in relevant domains may be considered a reasonable substitute for the required educational degree.

- At least 8 years' experience in the development, design, procurement and commissioning of a large cryogenic system with fusion, accelerator, scientific or industrial applications;
- Good experience of industrially proven cryogenic equipment, instrumentation and controls in world markets and associated research and development for specific applications;
- Good knowledge of thermal-hydraulic and thermo-mechanical analysis tools;
- Good experience of assembly, factory acceptance tests and commissioning of complex cryogenic equipment;
- Good Project Management experience is required.

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)

Others -Excellent knowledge in CAD Tools (AVEVA / PDMS and CATIA) to generate 2D Drawings and 3D Models is highly appreciated..

Languages English (Fluent)

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