the way to new energy

china eu india japan korea russia usa

My space

See jobs

My job alert

JOB DETAIL

Ref. IO1571 - 8/24/2015

Cryogenic Process Engineer PED-009

Main job	Cryogenics
Department	PED / Plant Engineering Department
Division	PED / Cooling Systems Engineering Division
Section	PED / CSED / Cryogenic System Section
Job Family	Coordinating Engineer
Application Deadline (MM/DD/YYYY)	09/20/2015
Grade	P4
Direct employment	Not required
Purpose	To ensure the integration, design, layout, construction and operation of the ITER Cryogenic System; To identify and detail the dedicated hardwired interlocks for the ITER cryogenic system's safe operation; To monitor the schedule to build the Cryogenic System and the programs for testing and commissioning the cryogenic equipment. • Develops and reviews the Process and Instrumentation diagram in order to assess the process controls and required instrumentation; • Ensures that requirements of the technical specifications are implemented by contractors and well justified; • Ensures that performance of the cryogenic system is achieved during testing and commissioning phases; • Develops and reviews the preparation of technical specifications for the cryoplant, cryolines and cryodistribution systems;
Main duties / Responsibilities	• Develops and reviews the process and design interfaces of the cryogenic components and subsystems; • Designs the dedicated hardwired interlocks necessary for ITER cryogenic system's safe operation and shutdown sequences, in respect with Quality Assurance and other IO requirements; • Develops and implements the required testing and commissioning program for the instrumentation and process control system; • Develops and maintains the operation and maintenance procedures as well as spare requirements; • Performs the training of the operators of the cryogenic system; • Writes and reviews the technical specifications and baseline documentation for the ITER cryogenic system; • Performs the required analysis to validate and improve the cryogenic system flexibility and reliability to operate over a full range of plasma scenarios; • Prepares, revises and maintains the schedule to build the cryogenic system as well as the testing and commissioning program; • Performs other duties in support of the project schedule as described in the Detailed Work Schedule and the Strategic Management Plan & upon management request; • May be requested to belong to any project team dealing with above activities and perform other duties upon management request; • Maintains a strong commitment to the implementation and perpetuation of the ITER Safety Program, values and ethics. • Reports to the Cryogenic System Section Leader; • Acts as an interface between designers of the magnets, the Tokamak 80K thermal shields, the cryo-vacuum pumps

	and the buildings to support integration; • In response to requests from the Director-General and/or Head of 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.
Measures of effectiveness	• Manages effectively interfaces between the cryogenic system and cryogenic users; • Manages effectively plans for procurement, preparing installation, tests and commissioning within the defined schedule; • Maintains effective communication with all parties delivering subsystems. ID SAP: 50000214 Project Construction Phase
Level of study	Master or equivalent degree
Diploma	Cryogenics or Process Engineering field
Level of experience	At least 10 years
Technical experience / knowledge	– Excellent knowledge of industrially proven cryogenic equipment in world market and associated R&D for specific applications; – A PhD in the related fields will be considered as an advantage; – Good knowledge of factory acceptance tests and commissioning of complex equipment. – Experience in the development, design, procurement and commissioning of large cryoplant and cryodistribution systems for fusion or accelerator applications; – Experience in process engineering and analysis of operating modes for large cryogenic systems;
Social skills	Ability to work effectively in a multi-cultural environment Ability to work in a team and to promote team spirit
General skills	– Experience in thermohydraulic analysis and numerical codes; – Experience working with the design code and standards.
Languages	English (Fluent)

Back

Apply

Send to a friend

Print offer