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JOB DETAIL

Ref. IO1138 - 8/31/2011

Cryogenic & System Eng Responsible Officer CEP-007

Main job	Cryogenics
Department	DIP/Directorate for Central Engineering & Plant
Division	CEP / Plant Engineering Division
Section	CEP / PED / Cryogenic System Section
Job Family	Project engineering
Application Deadline	30/Sep/2011
Grade	P4
Direct employment	Not required
Purpose	To define, integrate, procure and commission low temperature specific instrumentation for the ITER cryogenic system; To participate in the functional analysis and process control of cryoplants, cryolines and cryogenic distribution boxes installed inside the Tokamak building for the forced flow cooling of magnets and cryopumps; To define dedicated hardwired interlocks for the ITER cryogenic system safe operation; To define the requirements and interfaces of the ITER wide cryogenic process, instrumentation and controls, including the system engineering of all cryogenic system transversal activities.
Main duties / Responsibilities	• Contributes to and reviews the preparation of technical specifications for the cryoplant, cryolines and cryodistribution systems; • Contributes to and reviews the process and design interfaces of the cryogenic components and subsystems; • Contributes to the functional analysis, instrumentation and process control for the liquid helium, liquid nitrogen and cryogenic distribution systems; • Contributes to the definition of the instrumentation and controls for the liquid helium, liquid nitrogen and cryogenics distribution system; • Develops the required testing, commissioning and operation program for the cryogenic systems, including the instrumentation and process control system; • Establishes the operation and maintenance procedures as well as spare requirements; • Prepares programs and schedules to build, test and commission the cryogenic system; • Coordinates the interfaces between users and cryogenic systems as well as internal interfaces; • Coordinates the system engineering activity for the cryogenic system; • Maintains a strong commitment to the implementation and perpetuation of the ITER Safety Program, values and ethics.
Measures of effectiveness	• Successfully defines and implements the design and the instrumentation and control concepts of the cryodistribution system; • Successfully manages interfaces between the cryogenic system and cryogenic users; • Successfully manages plans for installation, testing and commissioning; • Successfully maintains effective communication with all parties delivering subsystems.
Level of study	Master or higher degree
Diploma	cryogenic or mechanical engineering field
Level of experience	At least 10 years
Technical experience	– At least 10 years' experience in the development, design, procurement and commissioning of large cryoplant and cryodistribution systems, applied to fusion or accelerator