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Ref. IO1139 - 8/31/2011

Cryolines Officer CEP-107

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	P3
Direct employment	Not required
Purpose	To participate in the design, layout, procurement, installation and testing of the cryoline system for the ITER tokamak; 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 cryopant cold box building.
Main duties / Responsibilities	<ul style="list-style-type: none"> • Revises and improves the process diagrams and design interfaces of the cryolines with the cryopant process boxes and all ITER cryogenic users, namely the magnets, the cryo-vacuum pumps and the 80 K thermal shields for the Tokamak; • Develops the detailed layout, internal design and routing of the cryolines inside both the tokamak and Cryopant cold box buildings and between these two buildings; • Develops the layout and routing of warm lines inside three buildings for the gas compressor stations, the cryopant process boxes and the tokamak pit; • Develops the technical specifications and revision of the Project Integration documents related to the cryolines; • Develops the programs and schedules to build, test and commission the cryoline system; • Supervises the procurement and the testing phase of the cryoline components and contributes to the operations phase preparation; • Maintains a strong commitment to the implementation and perpetuation of the ITER safety program, values and ethics.
Measures of effectiveness	<ul style="list-style-type: none"> • Successfully defines and implements the concept of the cryolines and cryodistribution system; • Successfully manages interfaces between the cryogenic system and cryogenic users; • Successfully manages plans for installation, tests, commissioning and operation; • Successfully maintains effective communication with all parties delivering the subsystem.
Level of study	Master or higher degree
Diploma	Mechanical Engineering or Cryogenics
Level of experience	At least 5 years
Technical experience	<ul style="list-style-type: none"> - At least 5 years' experience in the development, design, procurement and commissioning of cryolines for a large cryogenic system, applied to fusion or accelerator systems; - Very good knowledge of industrially proven cryogenic equipment, instrumentation and controls in world market and associated research and development for specific applications; - Proficiency in the design codes and standards; - Excellent knowledge of process engineering and analysis of operating modes for large cryogenic distribution systems; - Good knowledge of thermal-hydraulic and thermo-mechanical analysis tools; - Good practical knowledge of factory acceptance tests and commissioning of complex equipment;

