

IO1417 Cryogenic Cold Sinks System Engineer CEP-154

General information

| | |
|--------------|------------------------------------|
| Job category | Standard |
| Status | Published |
| Department | DIP/Department for ITER Project |
| Division | PSE/Plant Engineering Division |
| Section | PSE/ PED/ Cryogenic System Section |

Job description

| | |
|--------------------------------|--|
| Main job | Engineering - Cryogenics |
| Title of the position | Cryogenic Cold Sinks System Engineer CEP-154 |
| Job family | Engineer - 2 |
| Grade | P3 |
| Direct employment | Not required |
| Purpose | <p>To be responsible for the integration of nuclear systems and processes for Cold Sinks.</p> <p>To be responsible specifically for Cryogenic systems functional analysis and users integration.</p> <p>To manage the layout, integration, Quality Control (QC) of nuclear systems and Cryogenic equipment for Cold Sinks.</p> <p>To perform integrated design for Cryogenic Systems and Users.</p> <p>To perform Risk Analysis on Safety performances of the integrated systems and users as well as risk analysis on functional performances.</p> |
| Main duties / Responsibilities | <p>Develops to the design of the Cryogenic System & participates to its integration with other cold sinks / electrical power distribution & users;</p> <p>Develops the design of the Cold Sinks System & participates to its integration with other cold sinks / electrical power distribution & users;</p> <p>Develops the design & ensures conformity assessment of the Cold Sinks according to the French regulations for pressure equipment & following Cold Sinks design codes & standards, and ensures compliance of the French regulation during the manufacturing;</p> <p>Ensures compliance with manufacturing codes;</p> <p>Monitors the Cold Sinks design , fabrication & modularization of cold sinks according to the prescriptions of the French Nuclear Regulator - Autorité de Sûreté Nucléaire (ASN) & also following the indications of the concerned Agreed Notified Body (ANB);</p> <p>Reviews the contractors Manufacturing Inspection Plan (MIPs) & participates to the related inspections as required;</p> <p>Ensures that Documentation complies with Quality Plans;</p> <p>Establishes the list of all quality related document applicable to the Cryogenic system; Performs & Supports the Cold Sinks system design, procurement, assembly and/or installation and operation in close collaboration with Domestic Agencies & other ITER IO Directorates;</p> <p>Assures risk analysis in performing systems / components safety performances & operational performances in single & integrated configuration;</p> <p>Performs other duties in support of the project schedule as described in the Detailed Work Schedule & the Strategic Management Plan;</p> <p>Performs other duties linked to the above purpose upon management request, as necessary;</p> <p>Maintains a strong commitment to the implementation & perpetuation of the ITER Safety Program, values & ethics.</p> <p>Reports to the Cryogenic System Section Leader;</p> <p>Acts as an interface with other internal and external resources for the design of the Cryogenic system & other cold sinks;</p> <p>In response to requests from the Director-General and/or Director of Plant System Engineering (PSE) or proactively, informs the DG/ Director of PSE Directorate of any important & urgent issues that cannot be handled by the concerned line management and may jeopardize the achievement of the Project's objectives.</p> <p>Manages effectively the design of the Cryogenic System and the Cold Sinks in a timely manner;</p> <p>Ensures satisfaction of safety and functional requirements flow down;</p> |

| | |
|---------------------------|---|
| Measures of effectiveness | <p>Develop Costs efficient solution compatible with the civil structure input frozen in the early stage of design;</p> <p>Assure the flexibility of Cold Sinks performances in order to be compatible with the additional increasing of coolability capacity from different Clients;</p> <p>Manage range of interfaces parameters with clients and systems implementing extensively functional analysis.</p> <p>Project Construction Phase ID SAP: 50001161</p> |
|---------------------------|---|

Applicant criteria

| | |
|----------------------|---|
| Level of study | Master or equivalent degree |
| Diploma | Nuclear Engineering |
| Level of experience | At least 8 years |
| Technical experience | At least 8 years' experience in the System Engineering of complex Nuclear projects; Basic experience in the Cryogenic Systems Engineering; |
| Social skills | Ability to work effectively in a multi-cultural environment , Ability to work in a team and to promote team spirit |
| General skills | Basic Project Management experience is required. |
| Languages | English (Working) |
| Specific skills | MS Office standard (Word, Excel, PowerPoint, Outlook) |
| Others | <p>Required Knowledge:</p> <ul style="list-style-type: none"> - Manufacturing codes such as ASME, EN, CODAP, CODETI; - Pressure equipment regulation; - RELAP / CFD software is required; - 2D-3D CAD software is required. |