

# 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 &amp; participates to its integration with other cold sinks / electrical power distribution &amp; users;</p> <p>Develops the design of the Cold Sinks System &amp; participates to its integration with other cold sinks / electrical power distribution &amp; users;</p> <p>Develops the design &amp; ensures conformity assessment of the Cold Sinks according to the French regulations for pressure equipment &amp; following Cold Sinks design codes &amp; 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 &amp; modularization of cold sinks according to the prescriptions of the French Nuclear Regulator - Autorité de Sûreté Nucléaire (ASN) &amp; also following the indications of the concerned Agreed Notified Body (ANB);</p> <p>Reviews the contractors Manufacturing Inspection Plan (MIPs) &amp; 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 &amp; Supports the Cold Sinks system design, procurement, assembly and/or installation and operation in close collaboration with Domestic Agencies &amp; other ITER IO Directorates;</p> <p>Assures risk analysis in performing systems / components safety performances &amp; operational performances in single &amp; integrated configuration;</p> <p>Performs other duties in support of the project schedule as described in the Detailed Work Schedule &amp; 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 &amp; perpetuation of the ITER Safety Program, values &amp; 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 &amp; 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 &amp; 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>
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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"> <li>- Manufacturing codes such as ASME, EN, CODAP, CODETI;</li> <li>- Pressure equipment regulation;</li> <li>- RELAP / CFD software is required;</li> <li>- 2D-3D CAD software is required.</li> </ul>