

IO1452 Water Cold Sinks System Engineer PSE-163

General information

Job category	Standard
Status	Published
Department	DIP/Department for ITER Project
Division	PSE/Plant Engineering Division
Section	PSE/ PED/ Cooling Water System Section

Job description

Main job	Engineering - Mechanics
Title of the position	Water Cold Sinks System Engineer PSE-163
Job family	Engineer - 2
Grade	P3
Direct employment	Not required
Purpose	<p>To be responsible for the integration of the Vacuum Vessel (VV), In Vessels Components (IVCs), Vacuum Vessel Pressure Suppression System (VVPSS), TBSs, Diagnostics, Heating systems or similar clients and the Cooling Water System (CWS) in term of single and/or integrated process control;</p> <p>To perform functional analysis for the main component linked to the CWS;</p> <p>To manage the layout, the integration and the Quality Control (QC) of Nuclear Systems to CWS;</p> <p>To manage all the technical documents and drawings of the clients with the functional and physical interface with CWS;</p> <p>To perform safety analysis to support the client designs in normal and off-normal conditions within and beyond the design basis in single and integrated configuration;</p> <p>To perform and implement global and local control logic system properly supported by client instrumentation and control;</p> <p>To develop and to implement CWS system simulator(s) considering the interfaces with the clients using an independent and/or integrated approach.</p> <p>Develops and supports the functional analysis and the process control logic design studies for the main CWS clients (e.g. VV, IVCs, VVPSS, TBSs etc.) for establishing nominal performances and to assess the off-normal safety scenarios (for both incidental and accidental analyses);</p> <p>Performs safety analysis for the clients served by CWS for normal and accidental scenarios within and beyond design basis;</p> <p>Performs dynamic simulation(s) of the CWS as integrated to the main clients for both normal and off-normal conditions;</p> <p>Ensures the integration among the CWS and its various clients also issuing technical specifications and procedure for the relevant integrated testing and commissioning;</p> <p>May be required to work shifts during the ITER assembly and commissioning phase;</p> <p>Performs other duties in support of the project schedule as described in the Detailed Work Schedule and 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 and perpetuation of the ITER Safety Program, values and ethics.</p>
Main duties / Responsibilities	<p>Under close functional supervision from the Plant Systems Chief Engineer, reports to the Cooling Water System Section Leader;</p> <p>Acts as an interface between CWS and the its main clients;</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 and 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 systems integration of the CWS and its main clients in a timely manner;</p> <p>Ensures satisfaction of safety and functional requirements flow down;</p> <p>Manages the interface parameters with the CWS clients extensively implementing functional analysis;</p>
Measures of effectiveness	Assesses the flexibility of CWS performance to be adapted to possible further additional

increases in cooling capacity or service as requested from the clients.

Project Construction Phase

Applicant criteria

Level of study	Master or equivalent degree
Diploma	Nuclear / Mechanical Engineering.
Level of experience	At least 8 years
Technical experience	At least 8 years of experience in the System Engineering of complex Nuclear projects; Experience in the Cooling Water Systems Engineering for complex systems and projects; Basic Project Management experience is required.
Social skills	Ability to work effectively in a multi-cultural environment , Ability to work in a team and to promote team spirit
Languages	English (Working)
Specific skills	MS Office standard (Word, Excel, PowerPoint, Outlook)
Others	Experience using thermal hydraulic codes FATHOM/RELAP/CFD/ software is required; Experience using 2D-3D CAD software would be considered as an advantage.