

IO1304 Cooling Water Piping Engineer CEP-030

General information

Job category	Standard
Status	Published
Department	DIP/Directorate for Central Engineering & Plant
Division	CEP / Plant Engineering Division
Section	CEP / PED / Cooling Water System Section

Job description

Main job	Engineering - Mechanics
Title of the position	Cooling Water Piping Engineer CEP-030
Job family	System Engineer - 1
Grade	P3
Direct employment	Not required
Purpose	<p>To oversee the design, procurement, installation and testing of the Cooling Water System (CWS) piping and pressure equipment within the defined cost and schedule.</p> <ul style="list-style-type: none">- Oversees the finalization of the design of the CWS Configuration and Detailed Model drawings and relevant interfaces in the Tokamak Complex, auxiliary buildings and the site;- Oversees that the CWS piping and equipment design is properly integrated on the ITER site and with the interfacing clients;- Reviews the documents, configuration models and drawings prepared by industry;- Supports the CWS Technical Responsible Officers for the design, the layout and the procurement of the CWS piping systems made by industry according to the ASME B31.3.;- Supports the CWS Technical Responsible Officers for the design and the procurement of the CWS pressure vessels made by industry according to the ASME VIII div. 2;- Supports the CWS TRO for the design of the CWS pressure equipment made by industry to be compliant to the ESP-ESPN (Nuclear Pressurized Equipment (from French "Equipements Sous Pression Nucléaire") French rules;- Analyses and checks the stress analyses of the CWS piping systems made by industry and update the CWS load specification accordingly;- Oversees that the CWS piping and equipment design is properly integrated, installed and finally tested on the ITER site and with the interfacing clients;- Performs other duties in support of the project schedule as described in the Detailed Work Schedule and Strategic Management Plan;- Performs other duties linked to the above purpose upon management request, as necessary;- Maintains a strong commitment to the implementation and perpetuation of the ITER Safety Program, values and ethics.
Main duties / Responsibilities	<ul style="list-style-type: none">- Reports to the Cooling Water System Section Leader;- Acts as an interface between the CWS design coordinator, Designers, and Domestic Agencies' staff and suppliers to monitor and support development and update of the Configuration and Detailed Models and stress reports;- Acts as an interface between the Cooling Water System section and the interfacing client and user systems for the Configuration and Detailed Model drawings;- In response to requests from the Director-General (DG) and/or Director for Central Engineering and Plant (CEP) Directorate, or proactively, informs the DG/ Director for CEP 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.
Measures of effectiveness	<ul style="list-style-type: none">- Oversees the Cooling Water System (CWS) piping and pressure equipment design, and procurement, installation and testing within the defined cost and schedule;- Provides all inputs necessary to design, procure, construct and test the CWS according to the defined schedule;- Communicates effectively with other stakeholders and peers within the framework of ITER collaboration and the fusion community. <p>Project Construction Phase. SAP Id : 50000206.</p>

Applicant criteria

Level of study	Master or higher degree
Diploma	Nuclear or mechanical, process engineering field.
Level of experience	At least 5 years
Technical experience	<ul style="list-style-type: none">- Technical experience in the design and procurement of complex and large piping systems and pressure vessels;- Experience in design codes for pressure vessels and piping systems in the nuclear field (e.g. ASME, ESP-ESPN, etc.);- Experience in installation and testing of complex industrial system will be considered as advantage.
	<ul style="list-style-type: none">- Excellent knowledge of design an integrated system and procurement of complex piping and on line components.
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	<p>Computer and IT skills :</p> <ul style="list-style-type: none">- Excellent knowledge of software applications for development of 3D model and 2D schematics;- Good knowledge of computer codes for piping stress analysis of and design of the support structures;- Knowledge of FEM analysis for the design of pressure vessels and support structures;