

IO1362 Cooling Water CAD Designer CEP-144

General information

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

Job description

Main job	Computer Science - Computer Aided Design
Title of the position	Cooling Water CAD Designer CEP-144
Job family	Technician - 3
Grade	G4
Direct employment	Not required
Purpose	<p>To provide support for the production and review of 2D and 3D Computer Aided Design (CAD) drawings for the Cooling Water System (CWS) section.</p> <p>To execute technical studies on cooling system layout arrangements and to review CAD models and drawings made by Domestic Agencies (DAs) and industrial Subcontractors.</p> <p>To support (CWS) section for the preparation of drawings for Technical Specifications.</p> <p>Participates to 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;</p> <p>Participates to the integration of the CWS piping and equipment with all the interfacing clients inside the buildings and ITER site;</p> <p>Reviews the documents, configuration models and drawings prepared by industry;</p> <p>Participates to check the coherency between the 2D drawings (e.g. Piping & Instrumentation Diagrams) of the CWS circuits prepared by the Domestic Agencies (DAs) and 3D drawings;</p> <p>Supports the CWS Technical Responsible Officers for preparing piping and systems' layout and isometric drawings for the preparation of Technical Specifications and to support the relevant procurements and assembly on ITER site;</p>
Main duties / Responsibilities	<p>Identifies and resolves the potential interface issues about CWS space reservation and with other Plant Breakdown Structures;</p> <p>Participates to prepare catalogues in 3D CAD models for piping components (e.g. valves, instrumentation, etc.) and supports (e.g. anchors, snubbers, etc.) according to catalogues from vendors';</p> <p>Performs other duties linked to the above purpose upon management request, as necessary;</p> <p>Performs other duties in support of the project schedule as described in the Detailed Work Schedule or Strategic Management Plan;</p> <p>Maintains a strong commitment to the implementation and perpetuation of the ITER Safety Program, values and ethics.</p> <p>Reports to the Cooling Water System Section Leader;</p> <p>Acts as an interface between the CWS design coordinator, Designers of Design Office, and Domestic Agencies' staff and suppliers to monitor and support development and update of the Configuration and Detailed Models;</p> <p>Acts as an interface between the Cooling Water System section and the interfacing client and user systems for the Configuration and Detailed Model drawings;</p> <p>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.</p>
Measures of effectiveness	<p>Contributes effectively to the Cooling Water System (CWS) piping and equipment design, procurement, installation and testing within the defined cost and schedule;</p> <p>Provides all inputs necessary drawings to design, procure, construct and test the CWS according to the defined schedule;</p> <p>Communicates effectively with other stakeholders and peers within the framework of ITER</p>

collaboration and the fusion community.

Project Construction Phase

Applicant criteria

Level of study	Bachelor or equivalent degree
Diploma	Nuclear, mechanical, process engineering
Level of experience	At least 5 years
Technical experience	<ul style="list-style-type: none">- Technical experience in the design and drawing of complex and large piping systems and pressure vessels.- Knowledge of design of piping systems
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	CATIA, Computer Aided Design, ENOVIA, MS Office standard (Word, Excel, PowerPoint, Outlook)
Others	<ul style="list-style-type: none">Excellent knowledge of software applications for development of 3D model and 2D schematics by CATIA-ENOVIA and See-Visio;Knowledge of computer codes for piping stress analysis of and design of the support structures will be an advantage;