

IO1424 2D CAD Technician TCWS-014 + 015 + 025

General information

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

Job description

Main job	Engineering - Design
Title of the position	2D CAD Technician TCWS-014 + 015 + 025
Job family	Technician - 2
Grade	G3
Direct employment	Required
	[Job offer for 3 years contract] This post includes a total of 3 vacancies: TCWS-014; TCWS-015 & TCWS-025
Purpose	<p>To finalize the Process Flow Diagrams (PFDs), the Piping and Instrumentation Diagrams (P&IDs), General Arrangement & Layout drawings, isometrics & other input to support the final design, the procurements, the pre-assembly & the installation of the Tokamak Cooling Water System (TCWS);</p> <p>To execute technical studies & review the TCWS layout, diagrams & drawings;</p> <p>To support the Cooling Water System (CWS) Section for the preparation of the Bill of Materials extracted from the 2D drawings' database & to prepare the relevant annexes to the Technical Specifications for the procurement of the TCWS piping.</p>
Main duties / Responsibilities	<p>Supports the TCWS technical responsible officers in preparing layout drawings, detailed drawings, isometrics, supports drawings & bill of materials for the development of technical specifications for the contracts for the procurement, pre-assembly & installation of piping lines, piping supports, & valves for the procurements of the TCWS;</p> <p>Participates actively in the development or improvement of P&IDs using appropriated Computer Aided-Design (CAD) software for plant design & associated databases;</p> <p>Participates in checking the coherency between the 2D drawings (e.g. PFDs, P&IDs) & 3D models & the associated database in order to issue the Bill of Materials for TCWS procurement;</p> <p>Collaborates actively with System and Process Engineers to ensure the implementation of all design parameters & specifications (e.g. design temperature, design pressure, piping specifications) in the PFDs and P&IDs;</p> <p>Collaborates actively with System and Process Engineers to prepare drawings for TCWS process control;</p> <p>Participates in checking the coherency between the P&IDs and thermal-hydraulic Fathom models used for the design and the procurement of TCWS;</p> <p>Collaborates actively with Thermal Hydraulic, Control Process and Instrumentation & Control (I&C) engineers to support the TCWS design;</p> <p>Supports integration, clarification of interfaces & conflict resolutions of the TCWS piping and equipment with all the interfacing clients, other disciplines and Departments;</p> <p>Reviews the documents, diagrams, drawings & models prepared by the Domestic Agencies, subcontractors & suppliers to ensure conformance with project specifications, scope of work, design parameters, codes, and industry practices;</p> <p>Participates in the preparation of 2D drawings for piping and components (e.g. valves, supports, etc.);</p> <p>Assists in the preparation of design & drafting procedures and standards using detail design plant software & associated databases;</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>

Measures of effectiveness	<p>Reports to the Cooling Water System Section Leader; Acts as an interface with other internal & external resources for the final design, the procurements, the pre-assembly & the installation of the TCWS;</p> <p>In response to requests from the Director-General and/or Plant System Engineering (PSE) Directorate Director, or proactively, informs the DG/PSE Directorate Director of any important & urgent issues that cannot be handled by the concerned line management & may jeopardize the achievement of the Project's objectives.</p>
	<p>Manages the design documents of the TCWSs in an efficient manner.</p> <p>Provides accurate technical input to effectively support the Cooling Water System (CWS) piping and equipment design, procurement, installation and testing within the defined time schedule;</p> <p>Produces 2D CAD drawings for Cooling Water System components and/or piping / supports in a timely manner;</p> <p>Produces the required reports on time and in accordance with a high quality standard.</p> <p>Project Construction Phase</p>

Applicant criteria

Level of study	At least Post-Secondary Degree or equivalent
Diploma	Nuclear or Mechanical Engineering
Level of experience	At least 3 years
Technical experience	At least 3 years' experience in piping engineering and nuclear process; Basic experience in the design and construction of complex systems and projects.
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	Knowledge of 2D-3D CAD software is required (e.g. AutoCAD, CATIA\ENOVIA, SSD INTEGRAPH SP3D-SPP&IDs, AVEVA PDMS or E3D); Basic knowledge of Thermal Hydraulic software is an advantage (e.g. FATHOM).