

# IO1447 Manufacturing Engineer TCWS-022

## 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 - Manufacturing, welding
Title of the position	Manufacturing Engineer TCWS-022
Job family	Engineer - EC
Grade	P1
Direct employment	Not required [Job offer for 3 year contract]
Purpose	<p>To participate in the analysis of the feasibility of the complex piping modules/skids in terms of weldability, inspectability and maintainability;</p> <p>To participate in the optimization of the Tokamak Cooling Water System (TCWS) piping subsystem construction process definition;</p> <p>To contribute to the successful construction of the TCWS piping subsystem;</p> <p>To participate in the testing of the TCWS piping subsystem.</p>
Main duties / Responsibilities	<p>Envisions the optimal configuration of sub-assemblies in order to facilitate the construction sequence of the TCWS coordinated with the rest of systems in the building;</p> <p>Defines the welding procedures to be used in the assigned systems;</p> <p>Defines the scope of Non-destructive testing (NDT) to be performed in the assigned systems;</p> <p>Participates in the design &amp; conformity assessment of the Cooling Water System (CWS) according to the French regulations (ESP/ESPN) &amp; following required design codes &amp; standards as per Licensing Design Basis;</p> <p>Maintains full &amp; fruitful involvement in the systems design, fabrication &amp; modularization of CWS according to the prescriptions of the French Nuclear Regulator - Autorité de Sûreté Nucléaire (ASN) &amp; also follows the indications of the concerned Agreed Notified Body (ANB);</p> <p>Participates in the manufacturing of CWS;</p> <p>Supports the Cooling Water System (CWS) Section for the design, procurement, assembly and/or installation &amp; operation of the CWS components in close collaboration with Domestic Agencies &amp; other ITER Directorates;</p> <p>Contributes to ensuring fruitful &amp; continuous integration in CWS commissioning issuing &amp; supporting issues of commissioning technical specifications &amp; procedures.</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>
Measures of effectiveness	<p>Reports to the Cooling Water System Section Leader;</p> <p>Acts as an interface with other internal &amp; external resources for the design of the Cooling Water System components;</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 &amp; urgent issues that cannot be handled by the concerned line management &amp; may jeopardize the achievement of the Project's objectives.</p> <p>Performs feasibility study of the Cooling Water System piping in a timely manner;</p> <p>Produces manufacturing/testing reports on time and with a high quality standard;</p> <p>Contributes to ensuring satisfaction of safety and functional requirements flowdown.</p>

## Applicant criteria

Level of study	At least Master's Degree or equivalent
Diploma	Mechanical or Nuclear Engineering or equivalent
Level of experience	At least 2 years
Technical experience	At least 2 years' experience in the construction of large piping systems for Nuclear facilities; Basic knowledge of manufacturing techniques, welding procedures and related codes; Basic knowledge of NDT's techniques and testing procedures, as well as related standards; Basic experience in the System Engineering of complex Nuclear projects will be considered advantageous; Knowledge of the French ESP/ESPN regulations and practical application will be considered advantageous.
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/knowledge is required.
Languages	English (Working)
Specific skills	MS Office standard (Word, Excel, PowerPoint, Outlook)
Others	Knowledge of 2D-3D CAD software (AVEVA PDMS, Intergraph Smartplant or Catia) is appreciated.