

IO1432 Instrumentation & Control Engineer TCWS-019

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 - Control system
Title of the position	Instrumentation & Control Engineer TCWS-019
Job family	Engineer - EC
Grade	P1
Direct employment	Not required
Purpose	<p>To contribute to the design, procurement and integration of the Tokamak Cooling Water System (TCWS) in the area of Instrumentation & Control (I&C);</p> <p>To support the activities of the Section in all matters relating to the Cooling Water System (CWS) process instrumentation;</p> <p>To define and select the instrumentations following the functional analysis for TCWS and the clients/supplier interfaces;</p> <p>To perform and implement the global and local control logic system properly supported by local instrumentation and Central Systems;</p> <p>Develops and participates in the design and procurement of the TCWS Plant System I&C;</p> <p>Participates in the design and conformity assessment of the TCWS according to the French regulations for pressured equipment and following required design codes and standards as per Licensing Design Basis;</p> <p>Participates in the systems design and fabrication of CWS according to the prescriptions of the French Nuclear Regulator - Autorité de Sûreté Nucléaire (ASN) and also ensures proper implementation of the indications of the concerned Agreed Notified Body (ANB);</p> <p>Supports the Cooling Water Section for the design, procurement, assembly and/or installation and operation of the TCWS Plant System I&C in close collaboration with Domestic Agencies and other ITER IO Directorates;</p> <p>Participates in the manufacturing of TCWS Plant System I&C;</p> <p>Ensures fruitful and continuous integration in cold sinks systems commissioning, issuing and supporting issues of commissioning technical specifications and procedures;</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>Reports to the Cooling Water System Section leader;</p> <p>Acts as an interface with other internal and external resources for the TCWS Plant System I&C;</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 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>Produces reports and data sheets for the design of the TCWS Plant System I&C in a timely manner;</p> <p>Ensures satisfaction of safety and functional requirements flow down;</p> <p>Manages the process control analyses of the TCWS in a timely manner;</p> <p>Produces reports on time and with a high quality standard.</p>
	Project Construction Phase

Applicant criteria

Level of study	Master or equivalent degree
Diploma	Electronic ,Electric Eng., I&C or Process Control
Level of experience	At least 2 years
Technical experience	At least 2 years' experience required in large plant control system design, development and implementation; Basic experience required in data acquisition and control loop; Experience in large experimental device commissioning and operation would be an advantage.
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 is required.
Languages	English (Working)
Specific skills	MS Office standard (Word, Excel, PowerPoint, Outlook)