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JOB DETAIL

Ref. IO1836 - 4/4/2017

Process Engineer for Commissioning - PED-077

Main job	Nuclear Power
Department	PED / Plant Engineering Department
Division	PED / Cooling Systems Engineering Division
Section	PED / CSED / Cooling Water System Section
Job Family	Engineer - 1
Application Deadline (MM/DD/YYYY)	05/16/2017
Grade	P2
Direct employment	Not required
Purpose	<p>-To issue procedures for the stand-alone testing and commissioning of Cooling Water System (CWS) (e.g. Preparation and development of Commissioning Technical Specifications and Commissioning Procedures as well as defining requirements making compliance with interfaces).</p> <p>-To issue procedures and documents for the integrated phased testing and commissioning of Cooling Water System (CWS) in accordance to the ITER integrated operations.</p> <p>-To participate in the testing of the CWS equipment after manufacturing according to the relevant Factory Acceptance Tests (FAT) performing GAP analysis as required.</p> <p>-To participate to the CWS process engineering design activities according to the scheduled construction and assembly phases and development of CAD as required.</p>
Main duties / Responsibilities	<p>-Participates to the finalization of the process engineering for the phased commissioning of the CWS systems namely for the Tokamak Cooling Water Systems (TCWS) and for the Component Cooling Water System (CCWS), Chilled Water System (CHWS) and Heat Rejection System (HRS);</p> <p>-Prepares strategies for testing the CWS systems in stand-alone mode according to the time schedule;</p> <p>-Drafts the time schedule for the relevant testing, commissioning and operation in close collaboration with other ITER IO Divisions/Directorates;</p> <p>-Supports the CWS for ensuring the proper integration of CWS for testing and commissioning all the other relevant clients aiming at identifying possible corrective actions to add flexibility and reduce time schedule during testing and commissioning phases;</p> <p>-Participates to the finalization of the CWS functional analyses, considering the requirements during testing and commissioning of all the CWS systems;</p> <p>-Collaborates with the Instrumentation & Control (I&C) Engineers in the CWS Section to develop the control logic design studies and their integration in the CWS systems;</p> <p>-Verifies with the Nuclear Safety Engineer how to check and to assess during the commissioning the accidental scenarios involving CWS;</p> <p>-Participates in the manufacturing of CWS equipment namely to attend to the Factory Acceptance Tests (FAT);</p> <p>-Develops all required CAD drawings to fulfill the objectives/responsibilities as required for the job;</p> <p>-Monitors the testing and commissioning, identifying the risk, proposing solutions and implementing proper mitigation plan;</p> <p>-Performs other duties in support of the project schedule;</p> <p>-May be requested to be part of any of the project/construction teams and to perform other duties;</p> <p>-Maintains a strong commitment to the implementation and perpetuation of the ITER Safety Program, values and ethics.</p>
Measures of effectiveness	<p>-Reports to the Cooling Water System Section Leader;</p> <p>-Acts as an interface with other internal and external resources for the design of the Cooling Water System components;</p> <p>-In response to requests from the Director-General and/or Plant Engineering Department (PED) Director, or proactively, informs the DG/ PED 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> <p>-Produces technical procedures and prepares accurate reports for testing and commissioning of the CWS Systems in a timely manner;</p> <p>-Produces, plans and/or checks the time schedules for both the stand alone and the integrated testing and</p>

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commissioning of the CWS Systems in a timely manner taking in to account the requirements and interfaces;
-Produces testing/commissioning reports on time in a phased and sequence having high quality standard and as per industrial practices and/or large facilities;
-Ensures the satisfaction of safety and functional thermal hydraulic requirements during the testing/commissioning phases with proper risk analysis and mitigation actions.

Project Construction Phase

Level of study	Master or equivalent degree
Diploma	Mechanical or Nuclear Engineering or equivalent
Level of experience	At least 5 years
Technical experience/knowledge	<p>-Extensive experience in similar jobs (involving similar work responsibilities) and/or additional training certificates in relevant domains may be considered a reasonable substitute for the required educational degree.</p> <p>-At least 5 years' experience of testing and commissioning of cooling systems for large Industrial Plants and/or Nuclear Plants or Facilities; -First experience in the Engineering of complex Industrial Projects as systems; -First experience in the design or construction of cooling systems for Industrial Plants and/or Nuclear Plants or Facilities; in terms of testing and commissioning; -Basic Project Management experience is appreciated.</p>
Social skills	Ability to work effectively in a multi-cultural environment Ability to work in a team and to promote team spirit
Specific skills	CATIA MS Office standard (Word, Excel, PowerPoint, Outlook)
General skills	- Excellent knowledge in CAD Tools (AVEVA / PDMS, CATIA and See Visio) to generate 2D Drawings and 3D Models is highly appreciated.
Languages	English (Fluent)

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