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Ref. IO1093 - 5/31/2010

Cooling Water System Officer - CEP-004

Main job	Design
Departments	CEP/Department for Central Engineering and Plant Support
Divisions	CEP / Plant Engineering Division
Sections	CEP / PED / Cooling Water System Section
Job Family	Project engineering
Application Deadline	6/30/2010
Grade	P2
Direct employment	Not required
Supervised by:	Section Leader
Purpose	To work with the cooling water section leader and the technical responsible officer in the task of monitoring the design and procurement of the ITER cooling water systems (performed by others), providing technical direction, required input data, resolution of technical, scope, and cost/schedule conflicts, and ensuring that system components meet Project requirements and are delivered on time.
Main duties / Responsibilities	<ul style="list-style-type: none"> • Works with the cooling water section leader and the technical responsible officer to provide technical direction and coordination to ensure the design, layout, and procurement of the cooling water systems are technically adequate and carried out in a timely manner; • Identifies and documents physical and functional cooling water system interface requirements; • Actively participates in formal design reviews for the cooling water and interfacing systems; • Contributes to the completion of the technical specifications, especially for the procurement of piping and equipment for early delivery; • Is responsible for the consistency of the cooling water systems construction planning in relation to the ITER construction, commissioning and operation plans; • Works in close contact with the ITER divisions/groups/designers responsible for design and procurement of cooling water system client components and systems to ensure accurate interface control and schedule performance; • Assists the division/group leader in ongoing issues with high relevance to the design; • Provides support in the licensing activities for safety design and assessment of the safety related function; • Maintains a strong commitment to the implementation and perpetuation of the ITER safety and quality programs, values, and ethics.
Measures of effectiveness	<ul style="list-style-type: none"> • Successfully communicates with the ITER machine component designers to optimize both component and remote maintenance equipment design and performance; • Successfully communicates with other organizations within the ITER collaboration and the fusion community; • Successfully completes tasks assigned under "Main Duties / Responsibilities" above.
Level of study	Bachelor or higher degree
Level of experience	5 to 9 years
Technical experience	<ul style="list-style-type: none"> • At least 5 years' relevant experience in the design, construction and operation of cooling water systems and/or expertise for the mechanical design/analysis of piping and components, water chemistry, and layout; • Experience in the design and fabrication of centrifugal pumps, vertical pumps, plate heat exchangers, chillers, water polishing equipment, and/or mechanical draft cooling towers; • Relevant work experience in the nuclear power industry

- Experience in the preparation of process flow diagrams, piping and instrumentation diagrams, technical specifications, engineering calculations, hazards analyses, reliability analyses, piping stress analyses, and similar system design documents;
- Experience coordinating activities carried out by multiple partners;
- Experience performing work under an ASME NQA-1 or ISO 9001 quality assurance program.

Specific skills

- Able to coordinate
- Able to write clearly and concisely, and to summarize and communicate complex issues objectively;
- Able to use Microsoft Office automation tools effectively;
- Able to review, understand, and provide meaningful comments on Engineering and Project documents that include process flow diagrams, piping & instrumentation diagrams, specifications, electrical Single line diagrams, logic diagrams, 2D layout drawings, 3D CAD models, FMEA analyses, piping stress analyses, nuclear safety analyses, interface control documents, etc.;
- Able to perform engineering calculations such as those for pipe or equipment sizing, heat balance, thermo-hydraulic, and pipe stress;
- Familiar with ASME piping and pressure vessel design standards; familiarity with application of European/French pressure equipment directives and French nuclear regulations is an advantage;
- Ability to use software codes such as SEE Visio, Catia, AFT Fathom, Relap, Caesar II, Ansys is an advantage.

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