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JOB DETAIL

Ref. IO1867 - 7/7/2017

TCWS Instrumentation & Controls Engineer TCWS-035

Main job Control system**Department** PED / Plant Engineering Department**Division** PED / Tokamak Cooling Water System Division**Section** PED / TCWS / Tokamak Cooling Water System Design Section**Job Family** Engineer - 2**Application Deadline (MM/DD/YYYY)** 08/13/2017**Grade** P3**Direct employment** Not required**Purpose** Three-year contract

To specify and develop the global functional analysis, architecture and process control for the Tokamak Cooling Water System (TCWS) and prepare and develop the testing, commissioning and pre-operation of TCWS.

Main duties / Responsibilities

- Develops the global functional analysis, architecture and process control for TCWS;
- Works in strict collaboration with the process engineers to well integrate the process design into the I&C design;
- Responsible for the preparation and review of Technical Specifications and the overall design of the I&C for TCWS;
- Manages external Instrumentation & Controls (IC) design and components contracts as needed;
- Manages the schedule for the testing, and commissioning of TCWS I&C;
- Supports the electrical design of the TCWS;
- Monitors and contributes to the final acceptances of TCWS components and sub-systems procured by Domestic Agencies and/ or relevant manufacturers;
- Reviews and check the final acceptance tests of in-kind components as specified in the relevant procurement arrangement;
- Controls the operation and maintenance of the system during the pre-operational phase;
- Develops, maintains and reviews commissioning, testing, operation and maintenance procedures for TCWS;
- Prepares and carries out training courses for the operators of TCWS;
- Contributes to quality assurance and to management of interface issues in relation with Quality Assurance and Assessment Division;
- Performs other duties in support of the project schedule;
- May be requested to be part of any of the project/construction teams and to perform other duties;
- Maintains a strong commitment to the implementation and perpetuation of the ITER Safety Program, values and ethics.

- Reports to the TCWS Design Section Leader;
- Interfaces with other ITER Technical Departments as required; Maintains communication with other organizations within the ITER collaboration and the fusion community;
- In response to requests from the Director-General and/or Head of the Plant Engineering Department (PED), or proactively, informs the DG/Head of PED 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.

Measures of effectiveness

- Prepare and review design documentation in a timely manner;
- Prepare and review equipment technical specification in a timely manner;
- Prepare and review commissioning plans (as well as acceptance tests plans and reports) in a timely manner;
- Communicates with the ITER machine assembly and operation engineers and designers;
- Communicates with other Domestic Agencies and their Subcontractors within the ITER collaboration and the fusion community.

Project Construction Phase
SAP Id: 50003097

Level of study At least Bachelor's degree or equivalent**Diploma** Electrical, Electronic or Process Engineering**Level of experience** At least 10 years

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Technical experience/knowledge	<ul style="list-style-type: none">-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,-At least 10 years' experience in the design of Instrumentation and Controls for large installations, within international environment, and preferably in the nuclear field;-At least 5 years' experience in the commission and/or operation of complex installations, preferably in the nuclear field;-Previous experience with the testing and operation of large and complex cooling water system would be highly desirable;-Good Project Management experience is required.
Social skills	Ability to work effectively in a multi-cultural environment Ability to work in a team and to promote team spirit
Specific skills	MS Office standard (Word, Excel, PowerPoint, Outlook)
Languages	English (Fluent)

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