

## Wall Conditioning System Engineer

CEP-087

<b>Reports to Line Manager:</b>	Fuelling and Wall Condition Section Leader, Fuel Cycle Engineering Division, Central Engineering and Plant Support Department	<b>Job Code:</b>	CEP-087
<b>Direct Employment:</b>	Not Required	<b>Grade:</b>	P4

### Purpose

To manage the design and integration of the wall conditioning system (WCS), particularly the glow discharge conditioning system (GDC) and its deployment mechanism, including the development of documentations necessary for the procurement arrangement, management of interfaces, and supervising the procurement of the system.

### Major Duties/Responsibilities

china

eu

india

japan

korea

russia

usa

- Ensures the design, development and scheduling of the GDC and its deployment mechanism, including controlling the functional and physical interfaces of the GDC with other systems and components;
- Supervises the Domestic Agencies' (DA) progress in the design, R&D activities and procurement of the GDC parts;
- Provides assistance to the DAs and ITER Groups to carry out design, R&D, interface control and procurement;
- Participates in writing Technical Specifications (TS), System Requirement Documents (SRD), Interface Control Documents (ICD), Design Description Documents (DDD) and other documents necessary for the procurement arrangement;
- Supervise the manufacturing, testing and commissioning procedures, schedules, installation, integrated testing, and support for Safety and RAMI studies;
- In future and as the Fuelling and Wall Conditioning (FWC) Section develops, duties and responsibility will be reviewed;
- Maintains a strong commitment to the implementation and perpetuation of the ITER Safety Program, values and ethics.

### Qualifications and Experience

- **Education:**
  - Degree at least equivalent to 4-6 years of study after the High School Diploma, in Physics, Mechanical Engineering, Electrical Engineering or other related discipline.
- **Technical experience:**
  - At least 10 years' experience in managing the design, construction, installation, testing and operation of WCS or high voltage direct current systems, or similar experience;
  - Knowledge of mechatronics and robotic technology, and experience working with fusion devices (Tokamak) would be advantageous.

- ***Social Skills:***
  - Ability to work effectively in a multi-cultural environment;
  - Ability to work in a team and to promote team work.
- ***Language requirements:***
  - Fluent in English (written and spoken).

## **Direct Supervisor and Interfaces**

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- Reports to the Fuelling and Wall Condition Section Leader.
- Interacts with the interfacing system Responsible Officers at ITER Organization and technical Responsible Officers at Domestic Agencies for the integration of the GDC with other systems and components.

## **Authority / Approval Levels**

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This position has authority and approval levels generally defined by the DDG for his/her scope of work.

## **Measures of Effectiveness**

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- Successfully supports ITER WCS design, including identifying design changes required and establishing priority levels and means by which to implement them;
- Successfully establishes a mechanism for the ITER WCS to be integrated and to interface with other ITER systems;
- Successfully communicates with other groups in the ITER Organization (IO) on wall conditioning related issues;
- Successfully coordinates and directs the efforts of both the IO and the DAs with respect to the ITER WCS design and construction.