

Pellet Injection System Engineer

CEP-087

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

Purpose

To manage the design and integration of the Pellet Injection System (PIS), including the development of documentation necessary for the procurement arrangements, interface management, and to supervise the system procurement.

Major Duties/Responsibilities

china

eu

india

japan

korea

russia

usa

- Ensures the design, development and scheduling of the PIS, including controlling the functional and physical interfaces of PIS with other systems and components;
- Supervises the Domestic Agencies' (DA) progress in the design, R&D activities and procurement of the PIS;
- Provides assistance to the DAs and ITER Groups to carry-out design, R&D, interface control and procurement work;
- 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 arrangements;
- Supervises the manufacturing, testing and commissioning procedures, schedules, installation, integrated testing, support for Safety and RAMI (Reliability, Availability, Maintainability & Inspectability) studies;
- In the future and as the Fuelling and Wall Conditioning (FWC) Section develops, this position's duties and responsibility may be reviewed;
- Maintains a strong commitment to the implementation and perpetuation of the ITER Safety Program, values and ethics.

Qualifications and Experience

- **Education:**
 - Degree equivalent 4-8 years of study after the High School Diploma in Mechanical or Electrical Engineering, or relevant discipline.
- **Technical experience:**
 - At least 10 years' experience in managing the design, construction, installation, commissioning and operation of fuelling systems in fusion devices or similar;
 - Knowledge of tritium safety, nuclear licensing, cryogenic systems, vacuum pumping systems and plasma physics would be advantageous.

- ***Project experience:***
 - Basic Project Management experience is required.
- ***People Management experience:***
 - Excellent ability to organize and monitor the design activities of CAD designers.
- ***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).
- ***Computer and IT skills:***
 - Good command of the Microsoft Office package;
 - Knowledge of CATIA and Enovia would be advantageous.

Direct Supervisor and Interfaces

- Report to the Fuelling and Wall Conditioning (FWC) Section Leader.
- Interacts with the interfacing system Responsible Officers (RO) within the ITER Organization (IO) and with the technical ROs within the DAs for the integration of the PIS with other systems and components.

Authority / Approval Levels

This position has authority and approval levels generally defined by the Central Engineering and Plant Support (CEP) Deputy Director General for his/her scope of work.

Measures of Effectiveness

- Successfully supports the ITER PIS design, including identifying design changes required and establishing the priority levels and means for their implementation;
- Successfully establishes a mechanism for the ITER PIS integration and its interfaces with other ITER systems;
- Successfully communicates with other groups in the IO on Tokamak fuelling and related physics issues;
- Successfully coordinates and direct the IO and the DAs efforts with respect to the design and construction of the ITER PIS.