

Tritium Plant Technical Integration Engineer

CEP-114

Reports to Line Manager:	Tritium Plant Section Leader, Fuel Cycle Engineering Division, Central Engineering and Plant Support Department	Job Code:	CEP-114
Direct Employment:	Required	Grade:	G4

Purpose

To support the Tritium Plant integration activities: the interface management to the buildings and building systems; equipment support; penetrations; cable tray management; utilities and auxiliary systems such as glove boxes, heating, ventilation and air conditioning (HVAC), chilled water, breathing air and operation with self-contained breathing apparatus (SCBA), etc.

Major Duties/Responsibilities

china

eu

india

japan

korea

ruusia

usa

- Supports the ITER Tritium Plant System Engineers;
- Prepares the schematic drawings, process flow diagrams, and descriptive technical documentation for the Tritium Plant interfaces, building support services and auxiliary systems;
- Supports the distributed detritiation system piping network integration and interfaces;
- Assists the integration activities and system interface function assessments including equipment support for the Tritium Plant and other related systems (e.g. Radiological Monitoring, Vacuum Pumping Systems and the Test Blanket Module);
- Contributes to the building and glove box layout, and the space utilization studies, assembly and installation studies, building and glove box penetrations and associated design;
- Participates in the design integration of electrical cubicles and power and instrumentation cable distribution;
- Provides technical support in the preparation of design work orders and technical specifications for external contracts;
- Maintains strong commitment to the implementation and perpetuation of the ITER Safety Program, values and ethics.

Qualifications and Experience

- **Education:**
 - Degree at least equivalent to 2-4 years of study after the High School Diploma, in nuclear technology, mechanical or chemical engineering or other related discipline.
- **Technical experience:**
 - At least 8 years' experience in the development, design, manufacturing, commissioning and operation of plant systems and interfaces with a nuclear facility, preferably a tritium handling facility;

- Knowledge of plant interface and auxiliary systems, such as plant utilities, HVAC, equipment supports and building penetrations;
 - Experience and knowledge of radiological glove box applications would be a plus.
- ***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:***
 - Very good command of the basic Microsoft Office Package;
 - Previous Computer Aided Design (CAD) System experience would be advantageous.

Direct Supervisor and Interfaces

- Reports to the Tritium Plant Section Leader of the Fuel Cycle Engineering Division (FCD);
- Receives direction from System Engineers within the Tritium Plant Section;
- Close cooperation with other groups within the FCD;
- Some interface with Domestic Agencies (DAs) having Tritium Plant procurement packages and with the Industry developing the interface components and systems;
- Close cooperation with the ITER Design Office.

Authority / Approval Levels

This position has authority and approval levels generally defined by the leader of the Tritium Plant Section for his / her scope of work.

Measures of Effectiveness

- Successfully supports the ITER Tritium Plant Integration activities;
- Timely prepares the material required for development and design of the Tritium plant interfaces and systems;
- Successfully communicates with the Tritium Plant Section, other groups in the Fuel Cycle Division and with the DA's.