

TITLE: Tritium Plant System Engineer		CEP-038
REPORTS TO LINE MANAGER : Section Leader of Tritium Plant, Central Engineering and Plant Support Department		
DIRECT EMPLOYMENT : NOT REQUIRED		GRADE RANGE: P3-P4
DATE WRITTEN: December 2007	DATE REVISED:	DATE REVISED:

Purpose:

- A senior chemist, physicist or engineer is required to participate in design work, safety considerations, interface handling, integration and administration aspects of the Tritium Plant. The responsibility includes supervision of remaining R&D such as on Detritiation Systems, the Analytical System and metal hydride storage beds, contributions to technical specifications and procurement arrangements, and inputs to the installation and commissioning plan in view of licensing tests.

Major Duties / Responsibilities:

- Leading the design of the Tritium Plant Analytical System and layout of the off line tritium analytical laboratory.
- Ensuring that the Tokamak Complex Detritiation Systems and Safety Tritium Monitoring meet ITER safety requirements in all phases of procurement and installation.
- Management of system and procurement interfaces to and between the relevant systems.
- Liaison with the Domestic Agencies (DAs) responsible for the procurement packages of the related systems.
- Interfacing with the ITER Project Office and coordination of the overall integration of relevant systems.
- Contribution to the definition and control of Tritium Plant R&D work.
- Preparation of commissioning and tritium test plans with particular emphasis on licensing aspects and criteria and consistent with these.

Qualifications and experience:

- University degree (or equivalent), including a PhD, in chemistry, engineering or physics.
- At least 10 years experience in tritium R&D and hands-on tritium handling, not only on trace levels.
- Good understanding of tritium analytical methods with practical experience in the field.
- Significant experience in the safe handling of tritium and contaminated materials typical in fusion technology.

- Wide ranging knowledge in all technologies relevant to or applied in the ITER Tritium Plant systems, proven by ISI referenced publications.
- Ability to work effectively in a multi-cultural environment.
- Very good command of both spoken and written English.

Work Management structure and Interfaces:

- This position reports to the Section Leader of Tritium Plant in the ITER Central Engineering and Plant (CEP) Department.
- Close cooperation is required with other Tritium Plant group members along the work flows of the section.
- The main interfaces concern the Domestic Agencies responsible for Tritium Plant procurement packages.

Authority/Approval Levels:

- Has authority and approval levels generally defined by the Section Leader of the Tritium Plant for his/her scope of work.

Measures of Effectiveness:

- Successfully supports the ITER Tritium Plant detailed design work, safety considerations, R&D and Procurements Packages, including interface handling and integration.
- Timely provision of inputs to the installation and commissioning plan.
- Successful communication within the Tritium Plant group and with DAs.