

TITLE: Radiological Monitoring Engineer		CEP-065
REPORTS TO LINE MANAGER: Leader of Tritium Plant Section Central Engineering and Plant Support Department		
Direct employment : Not required		GRADE RANGE: P4-P5
Date Written: Dec 2007	Date Revised: May 2008	Date Revised:

Purpose:

A senior engineer is required to be responsible for all design aspects, procurement and contract management of the ITER Radiological Protection and Environmental Monitoring (RP&EM) systems. The task covers not only specific design work in view of radiological aspects (neutrons, activated material, tritium) but shall also take beryllium handling into consideration.

Major Duties / Responsibilities:

- ITER Responsible Officer (RO) for Radiological Protection and Environmental Monitoring.
- Assesses the requirements of the French regulatory authorities for radiological instrumentation standards and environmental monitoring in conjunction with the Environment, Safety, and Health Section of the Project Office.
- Reviews ITER Design Description Document DDD 6.4 - Radiological and Environmental Monitoring to propose updates and revisions in light of the construction at Cadarache.
- Reviews the ITER buildings design to revise the requirements for radiological protection instrumentation.
- Produces interface documents with other ITER groups involved in the implementation of the ITER RP&EM system, including data acquisition, alarm handling, power supplies, buildings, ventilation, other services.
- Produces assembly and installation plans of the RP&EM instruments and equipment in collaboration with other ITER groups.
- Produces specifications for the ITER RP&EM Laboratory in conjunction with the ITER Safety Group.
- Produces full technical specifications for the procurement of all the radiological protection instruments and monitoring systems required by ITER.
- Supervises procurement contracts with suppliers.
- Supervises assembly installation and commissioning of radiological protection instrumentation equipment.
- Maintains a strong commitment to the implementation and perpetuation of ITER safety program, values and ethics.

Qualifications and experience:

- University degree in engineering and education in radiological instrumentation design.
- At least 10 years experience in design and implementation of radiological instrumentation and environmental monitoring systems in a large nuclear or radioactive isotope handling facility.

- Experience in the full supervision of procurement contracts, including the negotiation and agreement of technical developments of equipment.
- Experience in negotiations with nuclear regulators would be an advantage.
- Ability to work effectively in a multi-cultural environment.
- Very good command of English, both spoken and written, is essential.

Work Direction and Interfaces:

Reports to the Leader of Tritium Plant Section of the ITER CEP Dept. Interfaces with groups involved in confinement systems, data acquisition, alarm handling, power supplies, buildings, ventilation and other services.

Authority/Approval Levels:

Has authority and approval levels generally defined by the DDG Central Engineering and Plant for his/her scope of work.

Measures of Effectiveness:

- Successfully supports ITER Tokamak Complex design, including identification of design changes required and establishing priority level and means of their implementation.
- Successfully supports to RP&EM related activities in the licensing process for ITER.
- Successfully supports implementation of design into procurement packages.