TITLE: Senior Safety Analysis Technical Officer			PRO-028
REPORTS TO LINE MANAGER: Section Leader Environment, Safety and Health Section for the Project Office			
DIRECT EMPLOYMENT: NOT REQUIRED		GRADE RANGE: P4-P5	
DATE WRITTEN: October 2006	DATE REVISED: June 2007	DATE REVISED: January 2008	

Purpose:

• To support the ITER Environment, Safety and Health (ES&H) Section Leader, the Project Office Head, and the Deputy Director General (DDG) for Safety and Security by providing a technical basis in support of the ITER safety case, the licensing process, and the implementation of safety requirements in ITER.

Major Duties/Responsibilities:

In order to support the technical needs of the project, in particular in relation to safety and environmental issues, the Senior Officer will:

- Support the ES&H Section Leader, the Project Office Head, and the DDG for Safety and Security in matters related to safety analyses, radiological source terms, and radioactive waste;
- Coordinate activities related to safety analyses and source terms, between the ITER Organization (IO) and safety specialists in the Domestic Agencies (DAs);
- Assist in the planning, execution and integration of activities responding to the demands and requirements of the French nuclear safety authorities during the licensing process;
- Prepare documents in support of the ITER safety submissions to the authorities;
- Lead technical investigations related to the safety impacts of neutron activation, tokamak erosion dust, and tritium, particularly in-vessel source terms;
- Direct R&D efforts for characterising tokamak erosion dust and in-vessel tritium source terms and their behaviour under accident conditions;
- Characterise the activation properties of neutron activated materials in ITER, and the impact on occupational safety and on radioactive waste;
- Liaise with other parts of the ITER Organization on matters related to in-vessel tritium and dust and their impact, to radioactive waste, and on the setting of safety requirements in these areas and ensuring their implementation;
- Show strong commitment to the ITER safety program and enforce it through individual behaviour;
- Maintain a strong commitment to the implementation and communication of ITER goals and ethics.

Qualifications and experience required:

• Extensive experience of technical safety studies including neutron activation issues in nuclear facilities, preferably including fusion;

- At least 10 years experience in coordinating and managing technical studies in the nuclear field, including safety analyses and preferably in fusion, as well as execution of technical work in this field;
- Strong awareness of the ITER safety strategy and design;
- Familiarity with ITER safety issues, such as the impact of erosion dust and retained tritium;
- Experience of writing technical documents in support of safety cases for submission to a nuclear regulator;
- Awareness of French nuclear safety regulations and practice, including radioactive waste management, is desirable;
- Fluency in English (oral, reading and writing) is essential; a working knowledge of French would be an advantage;
- The ability to work in a multi-national team.

Work Management structure and Interfaces:

- Reports to the leader of the ES&H Section, and works closely with the other members of this section;
- Interacts with other departments of the ITER Organization, in particular other sections of the Project Office and the Safety and Security Department;
- Liaises with specialists in ITER Domestic Agencies, with CEA/AIF (Agence ITER France) and with French regulatory authorities.

Authority/Approval Levels:

• Has authority and approval levels defined by the Head of the Project Office.

Measures of Effectiveness:

- Positive steps towards the resolution of safety issues in this field, particularly those related to dust, in-vessel tritium, and neutron activation;
- Satisfactory responses to the nuclear safety authorities in the issues related to the technical areas relevant to this post;
- Effective coordination of R&D tasks and other activities supporting the safety case;
- Successful integration of safety requirements in the ITER project in the relevant technical areas.