

TITLE: Senior Officer for Systems Engineering Processes		PRO-067
REPORTS TO LINE MANAGER: Leader of Design Integration and Configuration Control Section, Project Office		
DIRECT EMPLOYMENT: NOT REQUIRED		GRADE RANGE: P3-P4
Date Written: July, 2008	Date Revised:	Date Revised:

Purpose:

To develop and implement systems engineering processes during the design, procurement, installation and commissioning of ITER.

Major Duties/Responsibilities:

- Establishes and maintains a systems engineering plan to ensure the integration of all design and procurement activities related to the design and procurement of the ITER systems;
- Develops reviews and maintains project integration documents and provides scheduled reports on the status of the systems integration;
- Manages industrial contracts and task agreements with Domestic Agencies in the areas of her/his responsibility;
- Defines system engineering software requirements and follows up the software implementation and customization;
- Collaborates with design integration and configuration control officers in the Project Office and with the technical officers in the other departments to ensure that nuclear and conventional safety and security aspects (operational exposure minimization, hazard identification and analysis, nuclear shielding requirements, electromagnetic aspects, access control, etc.) are properly taken into account in the design;
- Supports the system requirements identification and management;
- Supports the definition and management of interfaces between components and systems;
- Supports the Value Engineering activities;
- Supports the preparation of, and participates in, formal design reviews of the ITER plant systems;
- Assists the ITER scheduling and planning group in the definition of the overall planning of the activities;
- Maintains a strong commitment to the implementation and perpetuation of the ITER safety program, values and ethics.

Qualifications and Experience:

- **Education:**
 - University degree (preferably higher) in Engineering, Technology or equivalent.
- **Experience:**
 - At least 10 years' technical and managerial experience in the field of nuclear devices;
 - At least 5 years' management experience leading a multidisciplinary team;
 - Extensive knowledge of radiation protection norms and radiation monitoring radiation shielding, of norms (French norms preferred) for the building of nuclear facilities,
 - Extensive experience in the design, construction and integration of large industrial facilities or nuclear plants;
 - Extensive experience in relevant work in an international environment;
 - Knowledge of the engineering aspects of the design and operation of the Tokamak systems would be advantageous;
 - Previous experience in interfacing and communication with the French Nuclear Safety Authority would be advantageous.
- **Language requirements:**
 - High level of both written and spoken English.

Work Direction and Interfaces:

- Reports to the Leader of Design Integration and Configuration Control Section within the Project Office;
- Interfaces with the Tokamak, port systems and plant systems design integration and configuration control Responsible Officers within the Project Office;
- Interfaces with the Environment, Health and Safety Section within the Project Office to ensure compliance of the design with the safety rules;
- Interfaces with the affected Responsible Officers (ROs) in the other ITER departments and ITER Parties' Domestic Agencies for all matters concerning her/his responsibilities.

Authority/Approval Levels:

Has authority and approval levels generally defined by the Head of the Project Office for his/her scope of work.

Measures of Effectiveness:

- Successfully develops and manages Systems Engineering processes.
- Successfully achieves integration of the nuclear safety norms in the design.
- Successfully establishes a good collaborative relationship with all involved people.