

TITLE: Senior Officer for Operation of ITER Machine		PRO-059
REPORTS TO LINE MANAGER: Head of Project Office		
DIRECT EMPLOYMENT: NOT REQUIRED		GRADE RANGE: P3-P4
DATE WRITTEN: December 2007	DATE REVISED:	DATE REVISED:

Purpose:

- Member of Project Office, the candidate contributes to all the areas listed below and takes responsibility for these areas.

Duties and Responsibilities:

- Support the Head of the Project Office in all matters relating to the ITER Machine Operation;
- Develop and manage the ITER Operation plan based on the Research and Development plan in close cooperation with FST department;
- Assist in the coordination and management of the interfaces between the ITER Project Office and the ITER Organization (IO) Departments with regard to machine operation issues;
- Define and produce specifications and procedures for ITER operation needs in the areas of:
 - Command-control, data processing, interlock and plasma control systems, and the man-machine interfaces;
 - Instrumentation for overall systems in relation to the needs for machine operation, technical parameter measurements, real time control loops and equipment protection;
 - Functional requirements of operation halls (test facilities, assembly hall, System halls, Tokamak hall) and Experimental Program & Control rooms;
 - Engineering and support services: electricity, water, cryogen, gas,;
 - Controlled access in buildings, test facilities and the Tokamak hall.
- Integrate in the testing, commissioning and operation activities all matters relating to the RAMI (Reliability, Availability, Maintainability, Inspectability) constraints.

Qualifications and Experience:

- A university (or equivalent) degree in engineering or physics;
- At least 10 years experience in operations management of fusion devices, preferably on different facilities with an experience in command-control, data processing, instrumentation and plasma engineering.

- Knowledge of plasma engineering principles relating to the main magnetic fusion device systems and services necessary to produce plasma discharges and the associated real time control loops for equipment and human protection;
- Knowledge of basic rules for nuclear safety and security aspects (access, radioprotection, dose limits, waste...);
- Ability to manage a control room and site control facilities;
- Proven ability in project coordination in some of the areas listed above;
- Knowledge of ITER and magnetic fusion would be an advantage;
- Experience in technical risk management and RAMI approach would be an advantage;
- Ability to work effectively in a multi-cultural environment;
- Fluent in English;
- Knowledge of the host language (French) and/or some of the participating member languages would be an advantage.

Work Management structure and Interfaces:

- Maintain communications with other organisations within the ITER collaboration on operation issues;
- Interface with all other IO Departments and Offices;
- Report to the Head of Project Office.

Authority/Approval Levels:

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

Measures of Effectiveness:

- Successfully contributes to interfacing between the ITER Organization Departments and the Project Office on integrated operations issues. Successfully aids the ITER project to define and establish operations personnel, interfaces, tools and procedures.