

TITLE: Engineer for Integration of tokamak and in-cryostat systems		PRO 006
REPORTS TO LINE MANAGER: Head of Design Integration and Configuration Management Section, Project Office		
DIRECT EMPLOYMENT: NOT REQUIRED	GRADE RANGE: P2 – P3	
DATE WRITTEN: October 10, 2006	DATE REVISED: October 12, 2006	DATE REVISED: December 6, 2006

Purpose:

Responsible for the Integration of all systems located inside the cryostat and for definition and management of the interfaces between auxiliary systems and tokamak systems.

Major Duties/Responsibilities:

- Develop and maintain the configuration control models, general layout, port allocation drawings and configuration control list of models of the in-cryostat systems.
- Define envelope models of the ITER in-cryostat components and interface models (skeletons models) to define the geometric interfaces among them
- Contribute to the implementation of procedures for interface definition and design integration of the port interfacing system.
- Perform integration check on the 3D and 2D models of the ITER plants produced by the other departments and Parties.
- Assist the in cryostat integration lead engineer to prepare formal design reviews of the ITER plant before start of procurement and during the work progress to identify and resolve issues.
- Collaborate with the machine assembly group to create a as-built digital mockup during the construction phase
- Interact with the ITER departments, field teams and domestic agencies to ensure the completeness and consistency of the CAD models and engineering data-base
- Interface with the assembly, remote handling and civil construction groups for all matters of his responsibility.
- Interface with the system analysis group to coordinate the system analyses activities and the ensure consistency with the design.

Qualifications and Experience:

- More then 5 years experience in the design, construction, system engineering and integration of large scientific and/or nuclear projects.
- Good knowledge of the Cad systems and drawings and models management system used in ITER
- Capability to coordinate the activity of a small group of designers.
- Excellent capability to interact with the responsible officers of the different disciplines with whom she/he interfaces.
- Knowledge of the engineering aspects of the design of the tokamak systems is an advantage

Work Direction and Interfaces:

Reports to the Section Leader. Interface with all involved departments (DDG's) and divisions. Maintains frequent communication with the other ITER departments and interact directly with appropriate levels in the Field Team and ITER parties domestic agencies for all matters of his responsibilities.

Authority/Approval Levels:

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

Measures of Effectiveness:

- Development of a consistent baseline of the ITER in cryostat systems.
- Effective management of interface issues.
- Establish a good collaboration attitude with all involved organizations.