

Director of the Directorate for CODAC, Heating and Diagnostics (CHD)

CHD-001

Reports to Line Manager:	Director of Department for ITER Project	Job Code:	CHD-001
Direct Employment:	Required	Grade:	DDG/D1-D2
Date Written:	March 2011	Date Revised:	March 2011

Purpose

To support the Director of Department for ITER Project and provide leadership in all matters related to the CODAC, heating and current drive systems and the diagnostic systems. In particular, to manage scope, schedule, cost, risk and quality of the related work and oversee interfaces to all other technical systems. To develop a central control system that operates the ITER site and all associated equipment and to manage with all technical groups the interfaces of their equipment to this system. To manage the development and construction of state-of-art heating and current drive system. To manage and oversee provision of all necessary diagnostics. To position ITER to be a facility and a research team with a leading, world-class fusion science program.

Major Duties/Responsibilities

- Supports the Director of Department for ITER Project (DIP) in all matters related to the CODAC systems, heating and current drive systems and diagnostic systems;
- Maintains a strong commitment to the implementation and perpetuation of ITER values and ethics;
- Manages all project relevant to scope, schedule, cost, risk and quality and regularly reports to the Director of DIP;
- Provides effective leadership for heads of division and staff of the Directorate for CHD by ensuring managers and team members be motivated, and by constantly developing their skills and experience through close staff collaboration; Oversees the interfaces between the ITER Organization and the Domestic Agency Leaders related to the tasks of CHD;
- Involves him/herself in the management of cost and schedule contingency;
- Enforces the project's QA program and risk mitigation related to the CODAC, heating and current drive systems and diagnostic systems;
- Manages the change control process and communicates changes to the Director of Department for ITER Project;
- Oversees the development and implementation of a control system that can be used across the site including infrastructure controls, plant controls etc.;
- Oversees the technical interfaces between the on-site construction and the control system applications;
- Develops application programs to support the testing and operation of all systems;
- Develops data storage and access for user operation;
- Develops and installs the necessary networks across the site;
- Integrates the safety relevant systems into the control system;

- Manages the change control process for his/her scope of work and communicates changes to the Director of Department for ITER Project;
- Shows strong commitment to the ITER safety program and enforces it through individual behavior and in his/her organization;

Qualifications and Experience

- **Education:**
 - Degree equivalent to PhD in tokamak physics and/or fusion technology or in relevant scientific and technological disciplines;
- **Technical and Project experience:**
 - Experience with CODAC systems or similar complex subsystems;
 - Deep understanding of tokamak heating and current drive system operation.
 - Experience in diagnostics for fusion devices or similarly complex systems.
 - Experience in effective QA management and implementation.
- **People Management experience:**
 - A minimum of 10 years in a managerial position in scientific and technical projects.
- **Social skills:**
 - Excellent communication and negotiation skills;
 - Ability to work effectively in a multi-cultural environment;
 - Ability to work in a team and to promote team work.
- **Language requirements:**
 - Good working knowledge of spoken and written English is essential.
- **Computer and IT skills:**
 - Skills consistent with managing a complex developmental project.

Direct Supervisor and Interfaces

- Reports to the Director of Department for ITER Project.
- Interfaces with other directorates to support excellent integration.
- Implements and enforces ITER's construction with high QA program.
- Interfaces with the construction design team on building requirements. Maintains communication with other organizations related to the ITER collaboration as well as fusion community.

Measures of Effectiveness

- Successfully manages the construction and integration activities for the issues of CHD.
- Successfully manages interface between CHD divisions and Domestic Agency Leaders.
- Successfully develops a cost effective installation and testing plan.
- Successfully supports the Director of Department for ITER Project in implementing the ITER technical scope.
- Successfully maintains effective communications with all Members delivering subsystems for the issues of CHD.