

Director of the Directorate for CODAC, Heating and Diagnostics

CHD-001

Reports to Line Manager:	Director of Department for ITER Project	Job Code: CHD-001 SAP ID: 50000276
Direct Employment:	Required	Grade: DDG/D1-D2 Director of Directorate
Date Written:	March 2011	Date Revised: Sept. 2012

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 (CHD). 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. To oversee and coordinate the execution of the Strategic Management Plan and decisions taken by the Director General (DG) and Director of Department. To implement systems: budget and schedule planning, staffing plan and oversight of staff selection at the CHD Directorate level.

Major Duties/Responsibilities

- Manages all projects 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 Quality Assurance (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;

- Ensures work delivering consistent with the budget of the Directorate and manages the staffing of the Directorate;
- Assures that IO's goals are achieved in a timely and effective manner, which meets safety, quality, cost and schedule targets;
- Maximizes human capital and people's commitment to achieving the IO goals;
- Provides leadership in safety;
- Builds and maintains relationship with internal stakeholders, Domestic Agencies and major external stakeholders;
- Performs other duties linked to the above purpose upon management request, as necessary;
- Maintains a strong commitment to the implementation and perpetuation of the ITER Safety Program, values and ethics.

Qualifications and Experience

- **Education:**
 - Degree equivalent to PhD in plasma physics and/or fusion technology or in relevant scientific and technological disciplines.
- **Technical and Project experience:**
 - At least 20 years' experience with a deep understanding of CODAC, plasma heating and current drive, plasma diagnostic and/or similar complex systems;
 - Experience in effective QA management and implementation.
- **People Management experience:**
 - A minimum of 10 years of high level and supervisory positions in major organizations, preferably in a scientific environment;
 - Ability to provide effective leadership;
 - Ability to motivate and develop the team members' skills and experience.
- **Social skills:**
 - Excellent communication and negotiation skills;
 - Ability to work effectively in a multi-cultural environment;
 - Ability to negotiate with influence and convince internal and external stakeholders;
 - Ability to work in a team and to promote team work.
- **Language requirements:**
 - English (working).
- **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;
- Interfaces with the construction design team on building requirements. Maintains communication with other organizations related to the ITER collaboration as well as fusion community;
- In response to requests from the Director-General, or proactively, informs the Director-General of any important and urgent issues that cannot be handled by the concerned line management and may jeopardize the achievement of the Project's objectives.

Measures of Effectiveness

- Manages the construction and integration activities for the issues of CHD.
- Manages interface between CHD divisions and Domestic Agency Leaders.
- Develops a cost effective installation and testing plan.
- Supports the Director of Department for ITER Project in implementing the ITER technical scope.
- Maintains effective communications with all Members delivering subsystems for the issues of CHD.
- Implements and enforces ITER's construction with high QA program.
- Responsible for Directorate deliverables that meet safety standards, quality schedule and cost requirements.
- Responsible for implementation of safety nuclear regulation and other safety standards of the Directorate's work.
- Responsible for adherence to technical standards.