

Director of the Directorate for Central Engineering and Plant (CEP)

CEP-001

Reports to Line Manager: Director of Department for ITER Project		Job Code:	CEP-001
Direct Employment:	Required	Grade: DDG/D1-D2	Director of Directorate
Date Written:	March 2011	Date Revised:	June 2012 Project Construction Phase

Purpose

To support the Director of Department for ITER Project and provide leadership in all matters related to the supporting plant infrastructure required for ITER. To manage central engineering support for electrical and mechanical engineering and lead the construction and installation workforce for the technical subsystems and plants. To manage scope, schedule, cost, risk and quality of all work related to major support plant systems and oversee interfaces to all other technical systems. 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 supporting plant systems for ITER;
- 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 Central Engineering and Plant 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 CEP;
- Involves him/herself in the management of cost and schedule contingency;
- Oversees the interfaces between the ITER Organization and the Domestic Agency Leaders regarding the supporting plant systems;
- Enforces the project's Quality Assurance (QA) program and risk mitigation regarding the supporting plant systems;
- Provides central engineering support for electrical engineering;
- Supports effective risk identification and management related to the supporting plant systems;
- Manages the change control process and communicates changes to the Director of Department for ITER Project;
- Realizes integration with other technical interfaces;
- Performs other duties in support of the project schedule as described in the Detailed Work Breakdown Structure Schedule or Strategic Management Plan;

- 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 at least equivalent to Master's degree or PhD in tokamak physics and/or fusion technology or in relevant scientific and technological disciplines;
- **Technical and Project experience:**
 - Strong background in mechanical and electrical engineering;
 - At least 20 years of outstanding expertise in the construction, installation and commissioning of large plant systems, such as cryogenics, water, electrical distribution, tritium processing and radioactive waste handling;
 - Good 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;
- In response to requests from the Director-General, or proactively, informs the DG 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;
- Interfaces with all 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 CEP;
- Successfully manages interface between CEP 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 communication with all Members delivering subsystems for the issues of CEP.