

TITLE: CAD Coordinating Engineer for the Cooling Water System		JOB CODE: CEP-097
REPORTS TO LINE MANAGER: Plant Design Section Leader, Design Office, Central Engineering and Plant Support Department		
DIRECT EMPLOYMENT: REQUIRED		GRADE: G5
Date Written: July 2008	Date Revised: February 2009	Date Revised:

Purpose:

To manage the CAD plant & process design and associated ITER Cooling Water System CAD data for the over the entire life-cycle (from design to machine operation) under the instruction of the relevant Responsible Officer (RO);

To supervise the CAD design activities performed by designers within the ITER Organization (IO) and outside the IO (Contributors).

Major Duties/Responsibilities:

- Manages the quality of the ITER Cooling Water System CAD data;
- Supervises and coordinates the design tasks under the guidance of the relevant RO(s);
- Performs coordination & development tasks as CAD Coordinating Engineer under the guidance of the relevant RO(s):
 - Follows-up with the process & layout design (coordination of several CAD designers; interface analyse & management; data structure & meta-data checking into the data-base; CAD data change management & tracking; 2D-3D coherence; Product-Break-Down-Structure implementation...);
 - Supports the RO in interactions with the Domestic Agencies and External Contributors regarding CAD activities;
- Performs coordination, development, Quality Assurance-Quality Control and time schedule monitoring tasks as Design Coordination Engineer following the instructions of the Plant Design Section Leader;
- 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 3-5 years of study after the High School Diploma, in a Technical engineering field, Mechanical or Process Engineering, Computer Aided Design, Thermal Process and Fluidic Engineering or other related discipline.

- **Technical experience:**
 - At least 10 years' experience working in a Process Design Office on a multi-disciplinary project and preferably performed in a remote design collaborative manner;
 - At least 5 years' experience in the design of complex cooling water system components and in nuclear safety related piping systems, meeting separation criteria and guillotine pipe break criteria would be an advantage;
 - Knowledge of thermal, mechanical and hydraulic calculations would be an advantage.
- **Social Skills:**
 - Demonstrated ability to produce high quality results which have stood the test of being manufactured, tested, installed and commissioned successfully is required;
 - Excellent ability to organize and monitor design activities, good communication skills and ability to work towards predefined goals with a high level of autonomy while sustaining a high level of pressure to work under;
 - Ability to work effectively in a multi-cultural environment;
 - Ability to work in a team and to promote team work.
- **Language requirements:**
 - Fluent in English (written and spoken).
- **Computer and IT skills:**
 - At least 5 years' experience in design work involving an advanced CAD system for 3D & drawing design, and enabling multi-discipline process description.

Direct Supervisor and Interfaces:

- Reports to the Plant Design Section Leader within the ITER Design Office;
- Interacts on a daily basis with the relevant ITER Component Responsible Officers (in charge of the technical solutions), the Integration Responsible Officers (in charge of the configuration control), Design Office Management & Support Team and Design Coordinators & Designers aiming for the required level of quality and efficient design development.

Authority/Approval Levels:

This position has authority and approval levels generally defined by the Design Office Division Leader for his/her scope of work.

Measures of Effectiveness:

- Provides efficient and high quality service to the ITER Design Office;
- Contributes to the effective development of the plant & process design;
- Develops further technical capabilities, flexibility, CAD tool control and team spirit;
- Supports the objectives & interests of the ITER Project;
- Establish a collaborative attitude with all involved internal & external organizations.