

<b>TITLE:</b> Design Coordinating Engineer for the Tritium Plant		<b>JOB CODE:</b> CEP-100
<b>REPORTS TO LINE MANAGER:</b> Plant Design Section Leader, Design Office Division, Central Engineering and Plant Support Department		
<b>DIRECT EMPLOYMENT:</b> REQUIRED		<b>GRADE:</b> G5
<b>Date Written:</b> July 2008	<b>Date Revised:</b> February 2009	<b>Date Revised:</b>

**Purpose:**

To manage the CAD plant & process design and associated ITER Tritium Plant CAD data 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:**

- Responsible for the quality of the ITER Tritium Plant 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 the interactions with the Domestic Agencies and External Contributors regarding CAD activities;
- 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 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 Tritium plant system components and in nuclear safety related piping systems 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 at 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.