

TITLE: Senior Cooling Water Systems Engineer		CEP-084
REPORTS TO LINE MANAGER: Leader of Cooling Water System Section, Plant Engineering Division, Department for Central Engineering and Plant Support		
DIRECT EMPLOYMENT: NOT REQUIRED		GRADE RANGE: P3 – P4
Date Written: July 2008	Date Revised:	Date Revised:

Purpose:

To supervise the integration, design, and installation of a significant portion of ITER cooling water systems (CWS) by leading CWS group members and working collaboratively with the ITER group/divisions in charge of the clients for the cooling water systems and Domestic Agencies (DA) to complete the CWS design, fabrication, and installation.

Major Duties / Responsibilities:

- Is responsible, with the CWS group members, to complete a significant portion of the CWS [i.e. Tokamak Cooling Water Systems (TCWS); or Components Cooling Water systems (CCWS), Chilled Water System (CHWS) and Heat Rejection System (HRS)] design, fabrication, and installation;
- Be responsible for the design of the system and components for the CWS including the layout;
- Integrates the CWS design with the other systems / components in ITER;
- Completes the design description document (DDD) of the CWS and technical specification in conjunction with the relevant Domestic Agency;
- Supports the licensing activities in close contact with the safety group;
- Be responsible for Procurement Arrangements for CWS detailed design and fabrication;
- Monitors the schedule/cost for the CWS construction;
- Maintains a strong commitment to the implementation and perpetuation of the ITER safety program, values and ethics.

Qualifications and Experience:

- **Education:** Master of Science Degree in Mechanical Engineering or related discipline (i.e. Nuclear Engineering);
- **Experience:**
 - Experience in the design of nuclear plant systems and components, and knowledge of water chemistry, layout and construction;
 - Experience in Mechanical / plant systems engineering with experience (more than 10 years) on fission power plants design;
 - Managerial experience (more than 5 years) on a wide range of projects involving plant design / construction;
- **Language requirements:** Excellent level of spoken and written English. Capability of writing and speaking to a very high degree on technical matters.

Work Direction and Interfaces:

- Reports to the Cooling Water Systems Section Leader;
- Interacts with personnel throughout the ITER Organization and Domestic Agencies on cooling water matters.

Authority/Approval Levels:

This position has authority and approval levels defined by the Section Leader for Cooling Water Systems.

Measures of Effectiveness:

- Successfully communicates with the ITER machine components designers to optimize both component and remote maintenance equipment design and performance;
- Successfully communicates with other organizations within the ITER collaboration and the fusion community;
- Successfully supports the CWS group colleagues;
- Successfully completes the tasks assigned under Main Duties / Responsibilities.