

TITLE: SENIOR COOLING WATER SYSTEM ENGINEER		CEP-003
REPORTS TO LINE MANAGER: DDG FOR CENTRAL ENGINEERING AND PLANT SUPPORT		
DIRECT EMPLOYMENT: NOT REQUIRED	GRADE RANGE: P3-P5	
DATE WRITTEN: SEP, 2006	DATE REVISED: MAY, 2007	DATE REVISED:

Purpose:

Responsible for the integration and all design aspects of the whole ITER cooling water systems (CWS) and to work collaboratively with the ITER group/divisions in charge of the users for the cooling water systems and designers in the Domestic Agencies to complete the CWS design.

Major Duties/Responsibilities:

- Responsible for clarification of the functional requirements of the whole CWS, i.e. tokamak cooling water systems (TCWS), components cooling water systems (CCWS), chilled water system (CHWS) and heat rejection system (HRS).
- Responsible for designing the system and components for the CWS.
- Develop the basic layout of the CWS especially for the systems which will be installed in the time critical building activities.
- Coordinate design activities for CWS design and R&D.
- Integrate the CWS design with the rest of the system/ components in ITER.
- Write design description document (DDD) of the CWS and technical specification.
- Support the licensing activities in close contact to the safety group.
- In addition, the following is another responsibility until new RO for the vacuum vessel pressure suppression system (VVPSS) is confirmed: To support the design of VVPSS tank and relief line.
- Maintains a strong commitment to the implementation and perpetuation of ITER values and ethics.

Qualifications Required:

- University degree, or higher, in Engineering.
- Excellent knowledge of English , both spoken and written.
- Mechanical/ plant system engineer with at least 10 years experience on fission power plant design.
- Technical ability to design nuclear plant systems and components, knowledge of water chemistry, layout and construction.
- Broad managerial experience in plant construction.
- Ability to work in a team, and in a multi-cultural environment is essential

Work Direction and Interfaces:

- Reports to Deputy Director General (DDG) of Central Engineering and Plant Support.
- Interfaces with other ITER Technical Divisions/Group as required.
- Maintains communications with other organizations within the ITER collaboration and the fusion community.

Authority/Approval Levels:

Has authority and approval levels defined by the division head for the scope of work (CWS and part of VVPSS) now.

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 PTs/ organizations within the ITER collaboration and the fusion community.
- Successfully completes tasks assigned under “Main Duties / Responsibilities” above.