

Title: Senior Technical Officer for ECH & CD		CHD 012
REPORTS TO LINE MANAGER: Division Head for Heating and Current Drive (DH); Department of CODAC&IT, H&CD and Diagnostics		
DIRECT EMPLOYMENT: NOT REQUIRED	GRADE RANGE: P5	
DATE WRITTEN:	DATE REVISED:	DATE REVISED:

Purpose:

Support the division head in all matters relating to the implementation of ITER H&CD. Candidate will work in the Heating and Current Drive division and will be responsible for the R&D activities of ECH, design, and procurement. The H&CD systems of ITER use 11 of the ITER ports. Integration of these ports to the machine is very critical to be able to deliver the H & CD power to the plasma. The candidate will also work with the division head to support port integration activity for RF Heating and Current Drive systems. He will also interface between various DAs involved in the procurement activities of ECH & CD systems. He will also be responsible for the start up system and its follow up during procurement.

Major Duties/Responsibilities:

- Be in charge of the coordination and development of the EC Heating and current drive system for ITER. Plasma Start up system coordination. Will be the Responsible Officer (RO) for ECH related WBS.
- Manage the process of specifications generation and procurement implementation for EC systems.
- Assure the consistency of the design and monitoring of the R & D necessary for the realization of EC systems undertaken by the Participant Teams.
- Contribute to the update of the design of the system as per project requirements.
- Provide support in the licensing activities for safety design and assessment of the safety related functions.
- Work in the team in charge of the heating and current drive systems and collaborate with other ITER groups / divisions.
- Monitor and control the interfaces with the other ITER relevant systems such as first wall, cooling system, installation, building, power supply, remote handling and control system.
- Be responsible for the consistency of the EC H & CD construction planning in relation to the ITER construction, commissioning and operation plan.
- Assist management in ongoing issues with high relevance to the ECH system design.
- Supports the DH in all matters related to the ECH systems for ITER construction.
- Develops designs of ECH systems by personal contribution and by specifying, monitoring and coordinating work in the laboratories and institutes of the ITER Partners, including any relevant supporting R&D, with emphasis on ECH launchers.

- Assists DH with the preparation of the interface documentation and keeping it up to date.
- Reports variances on all technical, cost and schedule aspects immediately to the DH.
- Supports effective risk identification and management.
- Shows strong commitment to the ITER safety program and enforces it through individual behavior.
- Maintains a strong commitment to the implementation and perpetuation of ITER values and ethics.

Qualifications Required:

- Post Graduate degree in Science or Engineering in a relevant area with working experience for at least 10 years. Should be a well-experienced experimental physicist / engineer and have experience in the design, construction and operation of RF systems or components and knowledge of the ITER EC systems and their technical requirements with excellent technical and managerial leadership.
- Experience in the construction and operation of the RF system integrated with tokamak facilities will be preferred
- Experience in effective QA management and implementation would be an advantage.

Work Direction and Interfaces:

Report to the DH.

Authority/Approval Levels:

Has authority and approval levels defined by the DDG for his scope of work.

Measures of Effectiveness:

Successfully develops the design and R&D of ECH systems.

Successfully develops the design of interfaces of ECH components with the main Tokamak components.

Successfully prepares technical specifications of allocated procurement packages.

Successfully manages the procurement of the ECH system.

Successfully develops cost effective installation and testing plans.

Successfully maintains effective communications with all parties delivering subsystems for the ECH systems.

Successfully supports the ECH need of the project.