

TITLE: Technical Officer, TBM Programme Technology		FST-019
REPORTS TO LINE MANAGER: ADDG (Assistant to the DDG) /DDG (Deputy Director General) for the Department for Fusion Science and Technology		
DIRECT EMPLOYMENT: NOT REQUIRED		GRADE RANGE: P2-P3
Date Written: July 2008	Date Revised:	Date Revised:

Purpose:

- To support the Department for Fusion Science and Technology (FST) in the supervision of the interfaces of the Test Blanket Module (TBM) systems with ITER Systems, including accounting of safety zoning for human access to key components;
- To support the FST Department in the preparation of the TBM Systems and Port Plug specifications and in monitoring their development throughout the ITER construction;
- To support the FST Department in the implementation of an appropriate Quality Assurance procedure and in the monitoring of its application, definition and implementation of Codes and Standards for TBM Systems.

Major Duties/Responsibilities:

- Contributes and supports the work performed by other ITER Departments on the interfaces of TBM Systems with ITER Systems (buildings, piping, tritium, Remote Handling, Hot Cell, etc.);
- Interacts with all ITER Members involved in the TBM programme on the technical issues relating to TBM Systems / ITER Systems interfaces under the supervision of the FST department;
- Interacts with the ITER Safety Team to assess acceptability and accessibility of the various TBM Systems components (including measurement systems and data transmission), with particular focus on the expected zoning of the various areas occupied by the TBM Systems;
- Contributes to the preparation of the TBM Systems specifications, TBM Port Plug specifications and dummy TBM specifications and to the monitoring of the compliance of the systems design and manufacturing with the specifications.
- Contributes to the monitoring of the TBM R&D performed within the Parties.
- Implements an appropriate Quality Assurance Procedure and contributes to the Quality Control of the TBM Systems design and manufacturing, of the TBM Port frames design and manufacturing, and of the dummy TBM design and manufacturing.
- Contributes to the definition and implementation of specific Codes and Standards for TBM Systems, and monitors their application to design and manufacturing activities.

- Contributes to the definition and monitoring of the TBM Systems and TBM Port Plug acceptance tests and commissioning.
- Maintains a strong commitment to the implementation and perpetuation of the ITER safety program, values and ethics.

Qualifications and Experience:

- **Education:**
 - University degree in a relevant area of engineering.
- **Experience:**
 - Outstanding expertise in technological aspects of fusion research, in particular in relation to the nuclear aspects of fusion technology.
 - At least 5 years' experience in design and analyses of in-vessel components for fusion devices; it would also be an advantage to have experience in breeding blanket technology.
- Sufficient knowledge of Quality Assurance and Quality Control procedures (proven working experience in this field would be considered an advantage).
- Demonstrated experience in international collaboration would be preferable.
- **Language requirements:** High level of written and spoken English.

Work Direction and Interfaces:

- Reports to the Assistant DDG / DDG for Fusion Science and Technology.
- Interacts with Responsible Officers within ITER Departments dealing with TBM-related activities.
- Liaises with technical experts in the international fusion communities involved in the Members' TBM Programmes.

Authority/Approval Levels:

This position has authority and approval levels generally defined by the Assistant DDG / DDG for Fusion Science and Technology.

Measures of Effectiveness:

- Successfully establishes and maintains the effective co-ordination of TBM-related activities with ITER Organization Departments;
- Successfully establishes appropriate Quality Assurance and Quality Control procedures for TBM-related activities in agreement with TBM communities in ITER Members;
- Successfully contributes to the monitoring of the R&D activities related to the TBM Programme within the Members.