

TITLE: MECHANICAL ENGINEER - FIRST WALL (FW) AND PORT PLUG BLANKET SHIELD MODULE (BSM)		TKM- 049
REPORTS TO LINE MANAGER: BLANKET SECTION LEADER		
DIRECT EMPLOYMENT: NOT REQUIRED	GRADE RANGE: P3 - P4	
DATE WRITTEN: OCTOBER, 2006	DATE REVISED: FEBRUARY 23, 2007	DATE REVISED:

Purpose:

A mechanical engineer or nuclear engineer who is experienced in design and fabrication of in-vessel components:

- First wall (FW) and Port Plug blanket shield module (BSM) detail design and analysis. The technical specification document is to be prepared.
- Interfaces with the vacuum vessel (VV), blanket cooling manifold, hot cell and remote handling are to be defined.

Major Duties/Responsibilities:

- Detailed design, fabrication method and nuclear /thermal /structural analyses of the blanket FW and port plug BSM.
- Preparation of the technical specification document for the blanket FW and port plug BSM.
- Coordination and planning/monitoring of Participant Team activities.
- Definition of interfaces of the blanket FW/BSM with the VV, blanket cooling manifold, hot cell and remote handling.
- Maintain a strong commitment to the implementation and perpetuation of ITER values and ethics.

Qualifications and Experience:

- University degree in mechanical engineering or nuclear/fusion engineering.
- More than 10 years experience as a mechanical engineer.
- Experience in design and fabrication of nuclear and/or fusion systems.

- Ability to work in a multi-cultural environment.
- Ability to interface with team members at all levels.
- Good knowledge of the English language, both written and spoken.
- Detailed knowledge of the ITER design and configuration.

Work Direction and Interfaces:

Reports to the Blanket Group Leader. Interfaces with all other groups within the ITER Organization as required.

Authority/Approval Levels:

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

Measures of Effectiveness:

Completes design and procurement of Blanket Components to schedule and within defined costs.

Successfully generates and maintains coherent, comprehensive, and understandable design documentation in English.

Successfully maintains effective communications within the ITER Organization.