

TITLE: Vacuum Vessel Mechanical Engineer		TKM-074
REPORTS TO LINE MANAGER: Leader of Vacuum Vessel/Ports & Thermal Shield Section, Vessel Division, Department for Tokamak		
DIRECT EMPLOYMENT: NOT REQUIRED		GRADE RANGE: P3-P4
DATE WRITTEN: June 2008	DATE REVISED: July 2008	DATE REVISED:

Purpose:

- To organize, facilitate and contribute to the design and analysis activities on the vacuum vessels related with the ITER safety requirements and licensing.

Major Duties/Responsibilities:

- Be in charge of cooling design of the VV/ports including in-wall shielding, effect of toroidal ribs, triangular support and venting pipes;
- Analyzes Thermal-hydraulic and thermal stress of the VV/ports;
- Coordinates and monitors/assesses Domestic Agencies' (DAs) activities for cooling design, thermal-hydraulic and thermal stress analysis of the VV/ports;
- Participates in structural analysis/evaluation of the VV/ports;
- Maintains a strong commitment to the implementation and perpetuation of the ITER safety program, values and ethics.

Qualifications and Experience:

- **Education :**
 - University Degree (Mechanical Engineer Diploma or Bachelor)
- **Experience :**
 - More than 10 years as a mechanical engineer and structural/thermal-hydraulic analyst, preferably on pressure/vacuum vessels;
- Ability to evaluate structural analysis results using design codes;
- Documentation skills in English;
- Coordination skills in order to be able to work together with the DAs.
- **Languages requirements :**
 - High level of written and spoken English.

Work Direction and Interfaces:

- Reports to the Vacuum Vessel/Ports and Thermal Shield Section 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:

- Successfully completes analyses of the Vacuum Vessel/ Ports
- Successfully implements monitoring processes with Domestic Agencies
- Successfully completes the cooling designs of the Vacuum Vessel/Ports