

TITLE: Vacuum Vessel Mechanical Engineer		JOB CODE: TKM-075
REPORTS TO LINE MANAGER: Vacuum Vessel, Ports & Thermal Shield Section Leader, Vessel Division, Tokamak Department		
DIRECT EMPLOYMENT: NOT REQUIRED		GRADE RANGE: P3
DATE WRITTEN: June 2008	DATE REVISED: July 2008	DATE REVISED: MARCH 2009

Purpose:

To complete the detailed design of the Vacuum Vessel (VV) system considering the current load specification;

To review drawings and technical specification of procurement-related documents in cooperation with related staff and Domestic Agencies (DAs).

Major Duties/Responsibilities:

- Completes the detailed design of the VV system including the critical structural elements such as the lower gussets and VV support structures;
- Checks the structural analysis results and optimizes the detailed design while also taking into account the VV design and RCC-MR construction code;
- Prepares the check lists to confirm consistency between drawings and analysis models for the Agreed Notified Body (ANB);
- Reviews the engineering drawings and technical specifications for procurement-related documents, especially those concerning tolerance controls, welding and fabrication methods;
- Checks and reviews drawings and technical specifications provided for the VV/ports contracts by the DAs;
- Maintains a strong commitment to the implementation and perpetuation of the ITER Safety Program, values and ethics.

Qualifications and Experience:

- **Education:**
 - Degree at least equivalent to 4-6 years of study after the High School Diploma in Mechanical Engineering or a related discipline.
- **Technical experience:**
 - At least 8 years' experience as a Mechanical Engineer for pressure/vacuum vessels or similar components;
 - Design and fabrication experience;
 - Documentation skills in English;
 - Capable of checking drawings.
- **Project experience:**
 - Basic project management skills required.
- **Social Skills:**
 - Good communication skills enabling effective collaboration with other staff and DAs;
 - Ability to work effectively in a multi-cultural environment;
 - Ability to work in a team and to promote team work.

- **Language requirements:**
 - Fluent in English (written and spoken).

Direct Supervisor and Interfaces:

- Reports to the Vacuum Vessel/Ports & Thermal Shield Section Leader;
- Interfaces with all other groups within the ITER Organization as required.

Authority/Approval Levels:

This position has authority and approval levels generally defined by the Division Head and DDG for his/her scope of work.

Measures of Effectiveness:

- Successfully maintains documents and drawings in the area of Vacuum Vessel/Ports;
- Successfully implements cooperation working processes with the DAs.