TITLE: Electromagnetic (EM) and Structural Analyst				TKM024
REPORTS TO LINE MANAGER: Vacuum Vessel/Ports & Thermal Shield Section Leader; Tokamak Department				
DIRECT EMPLOYMENT: NOT REQUIRED		GRADE RANGE: P3-P4		
DATE WRITTEN: October, 2006	DATE REVISED: MARCH 20, 2007		DATE	Revised:

Purpose:

Mechanical engineer experienced in design and analysis on vacuum vessels or pressure vessels. The VV structural integrity is to be confirmed by analysis. Overall EM and structural analysis of the vacuum vessel and ports is to be completed considering the latest load conditions and the final design. Comprehensive documentation is required on the final results for licensing.

Major Duties/Responsibilities:

- EM and structural analysis of the vacuum vessel including ports and vacuum vessel supports.
- Coordination of EM and structural analysis among PTs.
- Evaluation of results of the VV EM and structural analysis based on the ITER VV design code.
- Documentation of the VV structural analysis.

Qualifications and Experience:

- Educational Mechanical engineering.
- Work experience- more than 10 years as a mechanical engineer and structural/EM analyst preferably on pressure/vacuum vessels.
- Ability to evaluate structural analysis results using design codes.
- Skills
 - Documentation skill in English.
 - Coordination skill to work together with PTs.
 - Speaking English well.

Work Direction and Interfaces:

Report to the Vacuum Vessel/Ports & Thermal Shield Section Leader. Interfaces with all other sections 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:

Complete analysis activities of Vessel Components in a timely manner and within defined costs.

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

Successfully maintains effective communications within the ITER Organisation.