

# IO1179 Mechanical Engineer - TKM-018

## General information

Job category	Standard
Status	Published
Department	DIP/Directorate for Tokamak
Division	TKM / Vessel Division
Section	TKM / VV / VV Ports and Thermal Shield Section

## Job description

Main job	Engineering - Mechanics
Title of the position	Mechanical Engineer - TKM-018
Job family	System Engineer - 2
Grade	P4
Direct employment	Not required
Purpose	<p>To lead the system engineering activities for the Vacuum Vessel (VV) System (Main Vessel and Ports), with an emphasis on activities as the Technical Responsible Officer for the Korean Domestic Agency (DA) main vessel sectors and the equatorial and lower ports, including integration aspects.</p> <p>To coordinate activities for the other port-related procurements (VV supports, sealing flange, in-wall shielding of NB port) as required.</p>
Main duties / Responsibilities	<p>Completes design and coordinate IO activities for the procurement of the VV system in cooperation with Korean DA. Emphasis will be on activities related to Korean Main Vessel Sectors, equatorial and lower ports, and other port procurements (VV supports, sealing flange, in-wall shielding of NB port) including integration aspects;</p> <p>Monitors the corresponding manufacturing and assembly activities for the VV system with emphasis on the components procured by Korean DA,</p> <p>Coordinates DA activities as required in the Strategic Management Plan (SMP) and Detailed Work Breakdown Structure Schedules (DWS);</p> <p>Coordinates corresponding Inter Project Links between DAs;</p> <p>Prepares and coordinates technical and Procurement Arrangement (PA) meetings with Korean DA;</p> <p>Reviews and approves documents and Computer Aided Design (CAD) models/drawings submitted by Korean DA for the PAs;</p> <p>Submits documents to the Agreed Notified Body (ANB) for their approval;</p> <p>Reviews and assesses deviation requests and non-conformance reports from Korean DA;</p> <p>Assures related interfaces are defined and are consistent with the requirements.</p> <p>Confirms the load conditions and other requirements;</p> <p>Proposes definition of the assembly and maintenance schemes and methods in cooperation with the Assembly Section and Design Integration Section;</p> <p>Ensures that design requirements for the systems are met;</p> <p>Guarantees consistency with Safety/Regulator/Quality Assurance requirements;</p> <p>Ensures design and construction code compliance (such as RCC-MR);</p> <p>Performs thermal and structural analysis as required;</p> <p>Plans and oversees R&amp;D activities related to the VV support;</p> <p>Works on NB duct liners as requested;</p> <p>Performs other duties in support of the project schedule as described in the DWS or SMP;</p> <p>Performs other duties linked to the above purpose upon management request, as necessary;</p> <p>Maintains a strong commitment to the implementation and perpetuation of the ITER Safety Program, values and ethics.</p> <p>Reports to the Vacuum Vessel Prts and Thermal Shield Section Leader, in the Vessel Division;</p> <p>Interacts on a daily basis with members of the Vessel Division and ITER Tokamak Directorate as well as Domestic Agencies, especially Korean DA.</p>
Measures of effectiveness	<p>In response to requests from the Director-General (DG) and/or Director of the Tokamak (TKM) Directorate, or proactively, informs the DG/Director of TKM of any important and urgent issues that cannot be handled by the concerned line management and may jeopardize the achievement of the Project's objectives.</p>

Complete requested activities for the Korean main vessel sectors PA and equatorial and lower ports PA in time.  
 Complete each activity as scheduled in DWS and SMP.  
 Establish a good collaboration attitude with all members of the Vessel Division and Tokamak Directorate and with DAs.

## Applicant criteria

Level of study	Master or equivalent degree
Diploma	Mechanical Engineering field
Level of experience	At least 12 years
Technical experience	Experience in a similar position in a large multidisciplinary project. At least 8 years' experience in design and manufacturing of large vacuum/pressure vessels Experience in research area and/ or engineering project
Project experience	5 to 7 years
Social skills	Ability to work effectively in a multi-cultural environment , Ability to work in a team and to promote team spirit, Ability to communicate effectively, Ability to hold and respect deadlines
General skills	Coordination skills will the ability to set priorities and meet deadlines. Demonstrated ability to produce high quality results High level of reliability and autonomy
Languages	English (Working)
Free criteria	Preferably knowledge of CAD system; Preferably knowledge of FEM analysis