TITLE: Mechanical Engineer – Blanket		**TKM-059**
REPORTS TO LINE MANAGER: Blanket Section Leader Tokamak Department		
DIRECT EMPLOYMENT: NOT REQUIRED		**GRADE RANGE:** P3-P4
DATE WRITTEN: October 2006	**DATE REVISED:** January 2008	**DATE REVISED:**

Purpose:

- Works in the team designing and procuring the blanket first wall and shield module components. The scope of work will evolve with the procurement process, from conceptual design, through supervision of detailed analyses, to the following of the manufacturing process.

Major Duties/Responsibilities:

- Provide input to the conceptual design of the blanket components;
- Provide supporting thermal and/or mechanical analysis of the design solutions;
- Supervise detailed analyses performed by the Domestic Agencies, and ensure consistency among the various analyses;
- Follow and check the detailed designs developed by the Domestic Agencies;
- Prepare documents required for the procurement process;
- Follow the manufacturing process of the blanket components;

Qualifications and Experience:

- A university (or equivalent) degree in engineering or physics;
- Experience in the design and manufacture of components subject to thermal loads or nuclear radiation;
- Experience in the design of shaped high heat flux components like those used for the ITER first wall;
- Experience in the fabrication of large complex structures;
- Ability to both work in a team and to collaborate in an international environment;
- Ability to communicate in written and spoken English.

Work Management Structure and Interfaces:

- Reports to the Blanket 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:

- Completes design and procurement of allocated Blanket Components in a timely manner;
- Successfully generates and maintains coherent, comprehensive, and understandable design documentation;
- Successfully maintains effective communications within the ITER Organization.