

<b>TITLE: Design Engineer (Divertor Integration)</b>		<b>TKM-035</b>
<b>REPORTS TO LINE MANAGER:</b> Divertor Section Leader Tokamak Department		
<b>DIRECT EMPLOYMENT:</b> NOT REQUIRED		<b>GRADE RANGE:</b> P3-P4
<b>DATE WRITTEN:</b> October 2006	<b>DATE REVISED:</b> January , 2008	<b>DATE REVISED:</b>

**Purpose:**

- To support the design and specification of the divertor, including the design and integration of associated systems, diagnostics and instrumentation. Monitor related R&D in the ITER Member organisations, including the design and high heat flux testing of PFCs. Prepares the documentation and monitors the preparation for qualification and procurement by the Members. Monitors the procurement of divertor materials and components.

**Major Duties/Responsibilities:**

- Supervise the work carried out by the Members in preparation for the procurement of the Inner and Outer Vertical Target.
- Assist in the preparation of the procurement specifications of the divertor components, including materials, and incorporate modifications as a result of iterations with the Members and with the suppliers
- Supervise cassette and PFC drawing update including the production of drawings for all variations.
- Monitor the R&D by the Members:
- Improve CFC material development, improve CFC and W joining, and also non-destructive examinations, high heat flux testing.
- Monitor the procurement of the divertor components and related materials during the ITER construction.
- Interface and perform QA control of the divertor components

**Qualifications and Experience:**

- University degree (or equivalent) in a technical field, preferably in engineering
- Experience in the design and manufacture of high heat flux components for a UHV and/or nuclear devices.
- Ability to work in a team and to collaborate within an international environment.
- Ability to communicate with written and spoken English. Additional languages and, specifically, Japanese, are an advantage.

**Work Direction and Interfaces:**

- Report to the Divertor Section Leader.
- Interfaces with all other sections in 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 the design and procurement of Divertor 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 Organization.