

<b>TITLE:</b> <b>REMOTE HANDLING ENGINEER (BLANKET HANDLING)</b>		<b>TKM-045</b>
<b>REPORTS TO LINE MANAGER:</b> <b>REMOTE HANDLING SECTION LEADER</b>		
<b>DIRECT EMPLOYMENT:</b> <b>NOT REQUIRED</b>	<b>GRADE RANGE:</b> <b>P3 - P4</b>	
<b>DATE WRITTEN:</b> <b>OCTOBER, 2006</b>	<b>DATE REVISED:</b> <b>FEBRUARY 5, 2007</b>	<b>DATE REVISED:</b>

**Purpose:**

Support the Leader for the Remote Handling Section in matters related to the blanket remote handling equipment design, R&D, procurement specifications preparation and procurement project management, including coordination of international cooperation on remote handling equipment procurement.

**Main Duties/Responsibilities:**

- Support the activities of the ITER Organization Remote Handling Section in the areas of analysis, design and R&D for blanket remote handling equipment.
- Define and manage the design, manufacture and/or R&D tasks or contracts assigned to Domestic Agencies and industry.
- Support to the Remote Handling Section Leader by providing regular and ad-hoc status and summary information, and by assisting in the overall planning of activities.
- Interface effectively with Domestic Agencies responsible for procurement.
- Ensure that the blanket remote handling equipment design meets the requirements of the ITER machine.
- Coordinate technically relevant integration activities within the Project and execute the integral system design and analysis.
- Maintains a strong commitment to the implementation and perpetuation of ITER values and ethics.

**Qualifications and Experience:**

- More than 3 years experience in the technical integration/coordination for construction of large (science or industry) projects.
- University degree (preferably higher) in engineering, technology or equivalent.
- Good knowledge of the English language, both written and spoken.

- Good technical and managerial experience in the field of fusion and/or nuclear devices.
- Experience in preparing and monitoring design, research and/or manufacturing contracts in an international environment.
- Experience in the design, analysis and integration of remote operated / robotic systems for the maintenance of fusion and/or nuclear devices.
- Good knowledge of fusion and/or nuclear devices operations planning, logistics.
- Good knowledge and ability to use a) Failure Mode Effect Analysis (FMEA) and rescue for complex systems, b) Reliability, Availability, Maintainability (RAM) Analysis, c) Fault Tree Analysis (FTA).
- Knowledge of the radiation effects on materials and components.
- Knowledge of remote handling equipment design and usage principles for the exchange and remote refurbishment of in-vessel components is an advantage.
- Knowledge of design and/or utilization of cutting, welding and NDE equipment operating under remote or semi-remote conditions is an advantage.
- Working experience at one or more major fusion reactor device(s) is an advantage.
- Good knowledge of the English language, both written and spoken.

#### **Work Direction and Interfaces:**

Reports to the Remote Handling Section Leader. Interfaces with all other departments 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:**

- Successfully communicates with the ITER machine components designers to optimize both component and remote maintenance equipment design and performance.
- Successfully supports the Remote Handling & Maintenance colleagues.
- Successful completion of the tasks assigned under “Main Duties/Responsibilities” above.