

TITLE: Technical Engineer – Plant Systems Installation		TKM-060
REPORTS TO LINE MANAGER: Machine Assembly & Tooling Section Leader, Department for Tokamak		
DIRECT EMPLOYMENT: NOT REQUIRED	GRADE RANGE: G5-G6	
DATE WRITTEN: JANUARY , 2008	DATE REVISED:	DATE REVISED:

Purpose:

To support the staff of the Machine Assembly and Tooling Section in matters related to the installation of all plant systems, including the water cooling systems, vacuum systems, cryogenic systems, electrical busbars and components. The scope of the tasks will include the development of the strategies and procedures required to assemble and install all the related components and systems, and the identification and conceptualisation of the required tooling. The candidate will also participate in the development of the enabling technologies, contribute to the development of the overall Assembly Plan for the Project, and ensure compliance with the ITER QA program, safety requirements and procurement procedures.

Main Duties/Responsibilities:

- Support the staff of the Machine Assembly and Tooling Section in all matters related to the assembly and installation of plant systems.
- Assist in the development of concepts for assembling, installing, and aligning plant systems.
- Contribute to the development of assembly procedures, schedules, resource requirements and cost estimates.
- Help to identify and conceptualize the assembly tooling required to ensure successful installation and alignment of plant systems.
- Participate in the drawing up of technical specifications for the engineering design of the assembly tooling.
- Participate in the drawing up of technical specifications for the installation contracts associated with the systems for which the ITER Organization is responsible.
- Identify specific development tasks and / or feasibility studies which may be needed, including contribution to writing technical specifications.
- Assist section personnel in the supervision of interfaces with all departments of the ITER Organization and its partners.
- Participate in the evaluation of the engineering designs of plant systems and provide guidance on assembly aspects.
- Participate in the monitoring of the manufacturing and acceptance of components.

- Show a strong commitment to the ITER safety program and enforce it through individual behavior and work organization.
- Maintain a strong commitment to the implementation and communication of ITER goals and ethics.

Qualifications Required:

- Mechanical technical engineer, with a recognized qualification (degree, diploma or similar) in engineering, or a related discipline.
- Minimum of 10 years experience supporting the planning and construction of large, complex, engineering projects, with strong emphasis on the installation of mechanical systems.
- Demonstrated ability to develop innovative solutions to complex engineering problems.
- Experience in supporting the installation of plant systems during building construction would be a strong advantage.
- Substantial knowledge of project and contract management.
- Extensive knowledge of QA systems and their practical application.
- Experience of international procurement and tendering.
- Proactive, with drive and initiative.
- Ability to work as a member of a multi-cultural team, but also to work independently when required.
- Ability to interface with team members at all levels.
- Good knowledge of both written and spoken English.
- Ability to write clear and concise reports.

Work Direction and Interfaces:

- Reports to the leader of the Machine Assembly and Tooling Section.
- Supports responsible officers for the relevant plant systems.

Authority/Approval Levels

- Has authority and approval levels generally defined by the DDG for his/her scope of work.

Measures of Effectiveness

- Successfully supports the Section in drawing up, maintaining and implementing the Assembly Plan for plant systems.
- Successfully generates and maintains coherent, comprehensive and understandable documentation.
- Successfully maintains effective communications with collaborators within the ITER Organization.
- Successfully communicates with the ITER plant systems designers to formulate and validate the Assembly Plan and Procedures.
- Successfully completes the objectives set in agreement with the leader of the Machine Assembly and Tooling Section.