

IO1284 POP-027 Nuclear Engineer for Test Blanket Systems

General information

Job category	Standard
Status	Published
Department	DIP/Directorate for Plasma Operation
Division	POP / Technology Division
Section	POP/ TD/ Test Blanket Modules Section

Job description

Main job	Technology - Generalist
Title of the position	POP-027 Nuclear Engineer for Test Blanket Systems
Job family	System Engineer - 2
Grade	P4
Direct employment	Not required
Purpose	<p>To be responsible for the monitoring of all aspects of the design and manufacturing, activities for the (tritium breeding) Test Blanket Module (TBM) Systems provided by the ITER Members' TBM Teams; to be responsible for the integration of the associated ancillary systems into the ITER facility, including diagnostics and instrumentation;</p> <p>To be responsible for the definition of the acceptance tests for the TBM Systems. These activities involve close interaction with relevant operating units of the ITER Organization and with the ITER Members' TBM Teams.</p>
Main duties / Responsibilities	<ul style="list-style-type: none">- Monitors all aspects of the conceptual, preliminary and final design work carried out by the ITER Members' TBM Teams in preparation for the procurement of the Test Blanket Systems;- Develops technical specifications for the TBM Arrangements in liaison with relevant IO operating units and through negotiation with ITER Members' TBM Teams;- Is responsible for the review of the related documentation, including the production of the corresponding 3D models and 2D drawings;- Manages the Nuclear Safety Requirements of the Test Blanket Systems, including the safety-related instrumentation, and supervises the interactions with the Safety Authority in close liaison with the IO Safety Team;- Monitors the procurement of the Test Blanket Systems and related materials by the ITER Members' TBM Teams during the ITER construction phase under the rules defined in the corresponding TBM Arrangements, in close liaison with IO Procurement & Contract Division;- Manages the interfaces and Quality Assurance (QA) procedures of the Test Blanket Systems in close liaison with IO QA Division;- Leads the integration of the associated ancillary systems into the ITER facility;- Is responsible for the definition of the acceptance tests for the Test Blanket Systems both on the factory site and on ITER site;- Performs other duties in support of the project schedule as described in the Detailed Work Schedule and the Strategic Management Plan;- Performs other duties linked to the above purpose upon management request, as necessary;- Maintains a strong commitment to the implementation and perpetuation of the ITER Safety Program, values and ethics. <p>- Reports to the Test Blanket Module Section Leader;</p> <p>- Interacts with project divisions responsible for Safety and Licensing, for QA and for the design and procurement of ITER systems with interfaces to the TBM Systems;</p> <p>- Liaises with the Members' TBM Teams in the implementation of his/ her monitoring responsibilities and in the execution of his/ her responsibilities for integration and acceptance tests.</p> <p>- In response to requests from the Director-General and/or Plasma Operation Director, or proactively, informs the POP Director 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>
Measures of effectiveness	<ul style="list-style-type: none">- Regular reporting (at 3-monthly intervals) of the status of the design and manufacturing

activities for the six Test Blanket Systems, with timely identification of the issues that could have an impact on the SMP milestones;

- Generation and maintenance of coherent, comprehensive and understandable documentation for the Test Blanket Systems;
- Maintenance of effective communication within the ITER Organization and with the ITER Members' TBM Teams on all aspects of the design and procurement of the TBM Systems and on the integration of the related ancillary systems into the ITER facility.

Project Construction Phase

Applicant criteria

Level of study	At least Master's Degree or equivalent
Diploma	Nuclear Engineering or other relevant
Level of experience	At least 10 years
Technical experience	<ul style="list-style-type: none"> - Experience in the design and construction and integration of nuclear plant systems, preferably in an international environment; - Experience in fusion technologies and/or nuclear devices operations would be highly advantageous; - Experience in Nuclear Safety and in the practical application of QA procedures would be an asset.
Social skills	Ability to work effectively in a multi-cultural environment , Ability to work in a team and to promote team spirit
Languages	English (Working)
Specific skills	MS Office standard (Word, Excel, PowerPoint, Outlook)
Others	Basic Project Management experience is required.