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Ref. IO2136 - 7/1/2019

Head of Engineering Domain ENGN-001

Main job Executive Management

Department ENGN / Engineering Domain

Job Family Head of Domain

Application Deadline (MM/DD/YYYY) 09/15/2019

Grade D2

Direct employment Required

Purpose To lead and manage the Engineering Domain (ENGN) to support the Director-General (DG) of the ITER Organization (IO) to achieve the ITER Project's objectives, including acting as delegated Design Authority and Integrator of the ITER Plant as a nuclear installation, to assure implementation of systems engineering and configuration management, to ensure the overall coherence of functional and safety performances of the Project in accordance with the ITER regulations and IO rules, and the project requirements, with strict technical baseline management and engineering activities. This Domain also has specific responsibilities for design, manufacturing and delivery of the systems to be mainly installed post-First Plasma, in close collaboration and communication with other Domains and Domestic Agencies (DAs).

Background:

ENGN is established as one of the four Domains within the IO, and is an integrational domain of the ITER Project. Its responsibilities includes configuration management, systems engineering and design engineering activities for post-First Plasma components, in close cooperation with Construction and Science & Operations Domains and DAs, and supported by Corporate Domain. If captive components for these systems will be installed before First Plasma, this domain will work with Construction Domain to ensure the proper execution of their installation.

Main duties / Responsibilities Manage ENGN to fulfil its mission and responsibilities summarized in its terms of reference including the following major duties (Please copy/paste the following link in your web browser https://static.ITER.org/hr/domains/ToR_Engineering_Domain.pdf to review the detailed Terms of Reference); Develops the strategy for engineering activities and central integration, in close collaboration with Office of the DG in accordance with Project strategy; Serves as ITER's "Design Authority" delegated by the DG to assure the Plant functional and safety performance in accordance with Project functional and safety requirements, and Licensing basis; Implements the Technical Baseline in all Configuration Items, and controls & mitigates technical risks and issues; Ensures the design, procurement and installation of Machine and Plant, and the design integration and systems engineering processes in compliance with interfaces & safety requirements; Coordinates & performs integral and functional analysis to verify the project requirements are properly met in the developed design and addresses issues during each phase of the project, proposing & implementing solutions; Establishes & controls the implementation of the IO's quality processes, for configuration management, documents and records, design control, identification and control of items, software control and model development, ensuring staff training and audit execution of processes; Develops technical specifications and coordinates with Information Technology team for the development of project tools. Maintains procedures & instructions required for the implementation of tools and ensures training and utilization; Coordinates engineering support in mechanical and plant areas, defining & maintaining CAD strategy for the Project (processes, infrastructure, resources, production, collaboration with DAs, and QA/QC) to provide services based on project priorities;

Measures of effectiveness Develops the corresponding design through systems engineering implementation, oversees the hardware procurement, implements technical / quality control, Engineering Work Packages (EWP) and hand-over packages for installation, assembly, testing and commissioning of the systems, structures and components (SSCs). Ensures a successful installation and operation of the ITER Facilities including the post First Plasma configuration; including several systems except captive systems managed directly by the Construction Domain;

	<p>May be requested to perform other duties in support of the project; May be required to work outside ITER Organization reference working hours, including, week-ends and public holidays.</p> <p>Note: May be requested to work on beryllium-containing components. In this case, you will be required to follow the established ITER Beryllium Management Program for working safely with beryllium. Training and support will be provided by the ITER Organization.</p> <p>Contribute efficiently to achieve the ITER Project's objectives, currently in first place First Plasma. Control the configuration of the Technical Baseline throughout the entire construction activities, to achieve major milestones as in approved Baseline. Develop the design to meet the performance requirement within the approved Baseline. Lead the ENGN in a harmonized manner, and collaborate with DAs and other IO Domains/Department/Office as one team.</p>
Level of study	Master or equivalent degree
Diploma	Engineering or other relevant discipline
Level of experience	At least 20 years
Technical experience/knowledge	<p>At least 20 years' experience in systems engineering and nuclear-related engineering project; At least 5 years' executive experience in the role/job function of Management within a large international nuclear related engineering project; Experience in engineering (including design and systems engineering) in fusion energy project (e.g. tokamak and/or superconducting technologies) is a plus.</p> <p>High level competencies are expected in the following domains: Quality & Configuration Management, Design, Project Control, and Systems Engineering and Design Control. Please copy/paste the following link in your web browser https://static.iter.org/hr/domains/ENGN_Competencies.pdf to review the details.</p>
General skills	<p>The required education degree may be substituted by extensive professional experience involving similar work responsibilities and/or additional training certificates in relevant domains.</p> <p>Collaborate: Ability to facilitate and navigate dialogue with a wide variety of contributors and stakeholders in a diversified environment without compromising the discipline; Communicate Effectively: Ability to adjust communication content and style to deliver messages to work effectively in a multi-cultural environment; Drive results: Ability to persist in the face of challenges to commit and meet deadlines with high standards; Manage Complexity: Ability to analyze multiple and diverse sources of information to define root cause accurately before moving to proposals/solutions; Instill trust: Ability to model highest standards of team mindset, trust, excellence, loyalty and integrity.</p>
Languages	English (Fluent)

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