

IO1952 High Voltage Electrical Engineer TED-227

General information

Job category	Standard
Status	Published
Department	TED / Tokamak Engineering Department
Division	TED / Heating & Current Drive Division
Section	TED / HCD / Neutral Beam Section

Job description

Main job	Engineering - Electricity
Title of the position	High Voltage Electrical Engineer TED-227
Job family	Coordinating Engineer
Grade	P4
Direct employment	Not required
Purpose	<p>To oversee the functional specifications, procurement, installation and commissioning of the Neutral Beam (NB) Power Supplies (PS); including the prototypes that will be procured for, commissioned and operated at the NB Test Facility (TF), thereby giving experience of the power supplies prior to their installation at the ITER Organization (IO) site;</p> <p>To be responsible for the integration of the NB Power Supplies; To be part of the transverse team on the Heating and Current Drive (H&CD) PS, ensuring an efficient sharing of information and resources across the division.</p>
Main duties / Responsibilities	<ul style="list-style-type: none">-Prepares relevant procurement documentation and manages work being carried out the Domestic Agencies(DAs) under the Procurement Arrangement (PA) of the NB PS which are procured for the NBTf and the NB system at ITER.-Ensures system design and integration of the relevant NBPS, which are function specifications, and performs all those actions for meeting technical, cost and schedule milestones for ensuring proper performance of PS systems including safety and control;-Liaises as a primary point of contact with DAs in all technical aspects of the PS components, ensuring the implementation of Quality Assurance(QA) requirements;-Defines interfaces between the PSs being procured by the different DAs, maintaining interface documentation and Ensures internal interfaces at IO and transfers the necessary information to the relevant DA; Manages all the work related interfaces and integration of the systems in terms of functionality and operation;-Participates in the factory acceptance tests, site acceptance tests, integration and commissioning activities at both ITER site and NBTf site, raising Non-Conformance Reports when necessary and making their follow-up;-Supports effective risk identification and management;-Reports on the progress of NB PS design, procurement, and variance on all technical, cost and schedule aspects immediately to the line management;-May be required to work outside ITER Organization reference working hours, including nights, weekends and public holidays;-Implements the technical control of the Protection Important Activities, as well as their propagation to the entire supply chain;-May be requested to be part of any of the project/construction teams and to perform other duties in support of the project schedule;-Maintains a strong commitment to the implementation and perpetuation of the ITER Safety Program, values and ethics.-Reports to the Neutral Beam Section Leader;-Acts as an interface between the relevant DAs and the IO NB team;-In response to requests from the Director-General and/or Department Head of Tokamak Engineering Department (TED), or proactively, informs the DG/TED Head 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.-Manages efficiently the PA of the NB PS ensuring compliance with the ITER NB requirements;-Monitors effectively task agreements for the PS of the HNB and DNB and assess the impact on

Measures of effectiveness	<p>the overall design;</p> <ul style="list-style-type: none"> -Manages the design and integration specifically the interfaces of components relevant to the PS; -Develops PS interface with NB and ITER plant systems according to the phased development requirements of NB and interfacing systems. -Assures proper integration of PS components by implementing strategies and solutions to efficiently define, validate execute and control the installation and commissioning of electrical aspects of the Neutral Beam systems within the project baseline defined cost and schedule; -Issues deviation and non-conformance reports as and when required and manages effectively their progress through relevant QA process; -Generates and maintains coherent, comprehensive, and understandable documentation within the defined time line.
	<p>Project Construction Phase SAP Id: 50000307</p>

Applicant criteria

Level of study	Master or equivalent degree
Diploma	Electrical or power electronic engineering
Level of experience	At least 10 years
Technical experience/knowledge	<ul style="list-style-type: none"> -At least 10 years' electrical engineering experience including 5 years' experience in the high voltage engineering; -Experience in electric field stress analysis required; -Experience in the design of High Voltage systems is essential; -Understanding of the neutral beam or other heating and current drive systems an advantage; -Experience in providing guidance and coordinating technicians in procuring and/or installation of high voltage electrical equipment is desirable; -Knowledge of International and/or French electrical standards (e.g IEC)is required.
Social skills	<p>Ability to work effectively in a multi-cultural environment , Ability to work in a team and to promote team spirit</p> <ul style="list-style-type: none"> -Ability to facilitate dialogue with a wide variety of contributors and stakeholders;
General skills	<ul style="list-style-type: none"> -Ability to adjust communication content and style to deliver messages; -Ability to persist in the face of challenges to meet deadlines with high standards; -Ability to comply with high standards of team mindset, trust, excellence, loyalty and integrity.
Languages	English (Fluent)
Specific skills	Ansys, MS Office standard (Word, Excel, PowerPoint, Outlook)
Others	-Proficiency of MATLAB, PSIM and ANSYS required.