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JOB DETAIL

Ref. IO1779 - 10/10/2016

High Power Electrical Engineer - TED-088

Main job	Electricity
Department	TED / Tokamak Engineering Department
Division	TED / Heating & Current Drive Division
Job Family	Engineer - 2
Application Deadline (MM/DD/YYYY)	11/20/2016
Grade	P3
Direct employment	Not required
Purpose	<p>-The purpose of this position is to contribute to the design, procurement and integration of the Heating systems Power supplies, (Ion Cyclotron Resonance Heating (ICRH), Electron Cyclotron Resonance Heating (ECRH) and Neutral Beam (NB)).</p> <p>-As the ECRH system is a system required for first plasma, the work will be prioritized on this system and the needs of this system to meet its critical milestones in terms of procurement, installation, commissioning and operation.</p>
Main duties / Responsibilities	<p>-Is the primary point of contact with the Domestic Agencies (DA) in all technical aspects of the power supplies (PS) and their components, ensuring the implementation of Quality Assurance requirements;</p> <p>-Is involved with the DAs in the contact with industries involved in the development of the power supply components;</p> <p>-Contributes to all work related to definition of the internal interfaces in terms of functionality and operation;</p> <p>-Takes a leading role to define the interfaces between the PSs being procured by the different DAs;</p> <p>-Takes a leading role in the integration and installation requirements of the heating system power supplies and in particular for the ECRH system;</p> <p>-Ensures the internal interfaces at IO and transfer the necessary information to the relevant DA;</p> <p>-Assists with the management of the scope, schedule and cost of procurement of the systems and supporting hardware through the specified procurement packages;</p> <p>-Is responsible for the interface documentation and keeping it up to date;</p> <p>-Reports variances on all technical, cost and schedule aspects immediately to the relevant Section Leader (SL);</p> <p>-Reports regularly on the progress of the PS design and procurement directly to the SLs in the Heating & Current Drive Division (HCD)</p> <p>-Supports effective risk identification and management;</p> <p>-Ensures synergies in the development of the similar PS being developed in the three heating systems and collaborate with the relevant ROs.</p> <p>-Monitors the overall development and delivery schedules of the power supplies, which includes development and maintaining the Detailed Work Schedule (DWS);</p> <p>-Performs other duties in support of the project schedule;</p> <p>-May be requested to be part of any of the project team and perform other duties;</p> <p>-Maintains a strong commitment to the implementation and perpetuation of the ITER Safety Program, values and ethics.</p>
Measures of effectiveness	<p>-Reports to the Heating & Current Drive Division (HCD) Head;</p> <p>-Acts as an interface between HCD and the DA teams procuring the HV PS for the EC, IC and NB systems (Japan-DA, India-DA and European-DA);</p> <p>-In response to requests from the Director-General and/or 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.</p>

My space

RSS

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My job alert

-Completes the IO activities related to establishing the conceptual design and associated technical specifications for the HCD Power Supply Systems according to the SMP milestones;
-Oversees the DA's development and procurement program according to the DAs Detailed Work Schedule (DWS);
-Develops PS interface descriptions with ITER plant systems according to the phased development requirements of the 3 heating systems and their respective interfacing systems;
-Provides regular status reports on the PS development programs;
-Issues the deviation and non-conformity reports and manages their progress through the relevant Quality Assurance/ Quality Control processes on an as needed basis.

Project Construction Phase

Level of study	Master or equivalent degree
Diploma	High Voltage Power Supply field or other disciplin
Level of experience	At least 8 years
Technical experience/knowledge	<p>-Experience in designing, procuring and operating HV power supply systems is required; -Experience with HV PS system application to EC and/or IC and/or NB system(s) -Extensive experience in similar jobs (involving similar work responsibilities) and/or additional training certificates in relevant domains may be considered a reasonable substitute for the required educational degree.</p> <p>-At least 8 years' experience in designing and/or installing and/or operating HV PS systems; -Experience working in procurement and interface management of HV PS systems; -Basic Project Management experience is required; -Experience in providing guidance and coordinating technicians in procuring and/or installation of high voltage electrical equipment is desirable.</p>
Social skills	Ability to work effectively in a multi-cultural environment Ability to work in a team and to promote team spirit
General skills	-Microsoft Office software required, experience with Matlab or equivalent desirable.
Languages	English (Fluent)

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