

IO1249 Safety Systems Engineer CHD-092

General information

Job category	Standard
Status	Published
Department	DIP/Directorate for CODAC, Heating & Diagnostics
Division	CHD / Control System Division
Section	CHD / CSD / Plant Control and Instrumentation Section

Job description

Main job	Engineering - Control system
Title of the position	Safety Systems Engineer CHD-092
Job family	System Engineer - 2
Grade	P4
Direct employment	Not required
Purpose	<p>To be responsible for the development of the central part of Safety Control System Instrumentation and Control systems provided by the seven Domestic Agencies (DAs);</p> <p>To be responsible for their implementation, by overseeing and managing the integrated safety system and the design of the interfaces for the components and plants throughout its life cycle.</p> <p>Takes a leading role in the development of the central Safety Control system throughout its life cycle including its licensing in France;</p> <p>Takes a leading role in the development of the integrated safety systems and generate the technical specifications for outsourcing the development of the systems;</p> <p>Manages the scope, schedule, cost of procurement of the systems and supporting hardware through the specified procurement packages;</p> <p>Manages the collaboration between ITER International Organization and Domestic Agencies;</p> <p>Is responsible of the definition of the interfaces between central and plant safety systems;</p> <p>Integrates the work carried out by the different plant system experts on the identification and implementation of the safety Integration & Control functions in the Plant Safety systems;</p>
Main duties / Responsibilities	<p>Is responsible for design and technical specification of the central safety control systems;</p> <p>Prepare system design reviews;</p> <p>Supports the licensing process for the nuclear Integration & Control part;</p> <p>Performs technical follow-up of the procurement and installation of the Central Safety System;</p> <p>Manages the Factory and site acceptance tests for the Central Safety System;</p> <p>Contributes to the standardized and integrated commissioning phases for the safety systems;</p> <p>Performs other duties in support of the project schedule as described in the Detailed Work Schedule and the Strategic Management Plan;</p> <p>Performs other duties linked to the above purpose upon management request, as necessary;</p> <p>Maintains a strong commitment to the implementation and perpetuation of the ITER Safety Program, values and ethics.</p> <p>Reports to the Plant Control and Instrumentation Section Leader;</p> <p>Acts as an interface between IO other sections and Plant Control and Instrumentation Section for safety control system matters;</p> <p>Interfaces with the ITER Nuclear Safety and Licensing Division and industries involved in the development of specifications and implementations for the relevant systems;</p> <p>In response to requests from the Director-General and/or Director of CODAC, Heating & Diagnostics, or proactively, informs the DG/ Director of CODAC, Heating & Diagnostics 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	<p>Develops the design of the central safety control system;</p> <p>Prepares the technical specifications of allocated contracts;</p> <p>Develops design of the interfaces for the components and for the other plant safety systems;</p> <p>Manages the contracts of systems/components through contract packages;</p> <p>Prepares effectively for the installation of the safety I&C systems on ITER.</p> <p>Project Construction Phase</p>

Applicant criteria

Level of study	PhD or Master's Degree
Diploma	Physics/Nuclear engineering or other relevant
Level of experience	At least 8 years
Technical experience	Experience in the specification and design of safety systems; Experience in fusion facilities is considered as an advantage; Relevant experience in the design, construction of safety I&C systems; Knowledge of safety I&C systems for nuclear facilities, IEC61508 and IEC 61513 standards; Good knowledge of large systems integration; Clear understanding of the problems linked with control systems in large facilities and with the integration of heterogeneous industrial subsystems, is required.
Project experience	4 to 5 years
Social skills	Ability to work effectively in a multi-cultural environment , Ability to work in a team and to promote team spirit, Ability to organize and monitor activities, Ability to communicate effectively
General skills	Large scientific facility or Industrial Project Management experience is required; Experience in managing technical contracts; Experience in coordinating teams with different technical background; Experience in providing high quality technical and scientific documentation.
Languages	English (Working)
Specific skills	MS Office standard (Word, Excel, PowerPoint, Outlook)
Others	Proficiency in control hardware and network.