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JOB DETAIL

Ref. IO1629 - 1/8/2016

Fire Protection System Engineer - CIO-043

Main job	Mechanics
Department	CIO/ Central Integration Office
Division	CIO / Design Integration Section/Division
Job Family	Engineer - 2
Application Deadline (MM/DD/YYYY)	01/31/2016
Grade	P3
Direct employment	Not required
Purpose	<p>To oversee the integration of the fire protection requirements in the design of buildings and systems, including emergency planning support to the Safety Department;</p> <p>To propose a strategy, develop and implement it for tasks related to fire protection, including layout engineering and security of the ITER Facility;</p> <p>To assume any other duties related to functional analyses and integration of systems in the nuclear buildings and auxiliary buildings.</p> <ul style="list-style-type: none">• Defines the strategy and the policy for fire protection and fire extinguishing systems that are required to be implemented in order to fulfil safety and investment protection requirements;• Implements the fire protection safety requirements in close collaboration with the Safety Department;• Maintains the fire loads database in all the room sensitive from nuclear safety protection and investment protection point of view;• Performs and reviews fire hazard assessments and fire risk analyses;
Main duties / Responsibilities	<ul style="list-style-type: none">• Evaluates the impact of fire protection strategy on the plant systems and buildings;• Assesses design of fire barrier solution compatible with system specific requirements;• Participates in planning and overseeing of qualification testing, installation and commissioning of fire protection systems;• Collaborates with the systems Responsible Officers in implementing the fire protection strategy for the safety protection important components and for investment protection components;• Participates to the systems integration review meetings in order to verify the implementation of the fire protection requirements and advises on corrective actions when necessary;• Interfaces with all plant systems responsible officers for implementing the fire protection strategy and for solving any open issue related to Fire Protection;• Performs other duties in support of the project schedule as described in the Detailed Work Schedule or Strategic Management Plan;• May be requested to be part of any of the project team dealing with the above activities and perform other duties upon management request;• Maintains a strong commitment to the implementation and perpetuation of the ITER Safety Program, values and ethics <ul style="list-style-type: none">• Reports to the System Engineering Section Leader;• Interface closely with the Safety Department, Plant Engineering Department and other ITER Departments and

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	<p>Project Teams;</p> <ul style="list-style-type: none">• Interacts with the technical responsible persons for the systems within IO and Domestic Agencies for all matters relating to the fire protection of safety protection important components and investment protection components;• In response to requests from the Director-General and/or Central Integration Office (CIO) Head, or proactively, informs the DG/CIO 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;
Measures of effectiveness	<ul style="list-style-type: none">• Maintains accurately the fire load database within the defined schedule;• Ensures the proper implementation of the fire protection strategy and requirements;• Proposes an effective strategy and policy for fire protection and fire extinguishing;• Reviews the integration of the fire requirements in system design and proposes corrective actions when necessary.
Project Construction Phase	
Level of study	Master or equivalent degree
Diploma	Mechanical engineering or other related discipline
Level of experience	At least 8 years
Technical experience/knowledge	<p>At least 8 years' experience covering the following topics:</p> <ul style="list-style-type: none">o Experience in fire protection and fire extinguishing systemso Experience in fire hazard assessments and fire risk analyseso Knowledge of both international and French fire protection regulation, codes & standardso Knowledge of the fire protection and fire extinguishing strategies applicable in nuclear and experimental facilitieso Knowledge of nuclear safety and regulatory requirementso Sufficient experience in design, procurement and construction
Social skills	<p>Ability to work effectively in a multi-cultural environment</p> <p>Ability to work in a team and to promote team spirit</p>
General skills	<ul style="list-style-type: none">- Excellent capability to interact with experts from different disciplines;- Organizational skills and autonomy for his/her of responsibility;- Flexible and proactive approach oriented on problem solving
Others	<ul style="list-style-type: none">- Practical knowledge of fire modelling software, such as CDI, Magic, Sylvia or other;- Excellent knowledge of the Microsoft Office package.
Languages	English (Fluent)
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