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JOB DETAIL

Ref. IO1999 - 6/20/2018

Safety Analyst SD-046

Main job Nuclear Safety

Department SD/ Safety Department

Division SD / Environmental Protection & Nuclear Safety Division

Section SD / EPNS / Safety Analysis & Assessment Section

Job Family Functional Officer - 2

**Application Deadline
(MM/DD/YYYY)** 08/15/2018

Grade P3

Direct employment Not required

Purpose To support the Safety Analysis & Assessment Section Leader in addition to the Environmental Protection Nuclear Safety Division Head by suitable analysis and surveillance in all matters related to ITER safety and environmental issues in order to cover the risks for various phases of the ITER facility (design construction, assembly, commissioning, operation);
To initiate and implement or maintain the necessary calculation tools needed to perform specific calculations and analyze their results related to source term or energy control and document the safety and environmental issues for ITER;;
To coordinate and integrate activities performed by the Domestic Agencies (DAs) and ITER Organization departments;
To provide guidance and support for the strong implementation of the defined requirements in the scope of Safety Analyst;
To liaise between safety and other teams to implement/propagate safety provisions as well as to enforce and maintain the Quality Assurance (QA) program and safety requirements.

- Acts as Safety Officer for various systems related to cryogenic fluids, magnets, in-vessel coils, fast discharge units and Test Blanket Modules (TBM) for any stage of the system life cycle in order to ensure surveillance of the activities as performed by other entities;
- Solves ongoing safety and environmental issues, provides the data needed in this field for the associated safety demonstrations;

**Main duties /
Responsibilities**

- Provides expertise and performs calculations (with software or hand-guided calculations) for safety matters related to design, construction, assembly, commissioning or operational activities;
- Applies and develops new models (simplified and advanced) for activated corrosion products, accident analysis, source term evaluation and control (energy, radiological and chemical inventories) in order to check research results (as well as verification and extrapolation of large computer codes or experiments) and ensure the validation of the adequate calculation tools,
- Carries out best engineering estimates and ad hoc analyses to identify open issues and support all safety aspects including tritium permeation, arc damage consequences, liquid-He flows, etc.;
- Performs specific safety analyses with regards to the compliance of the design, construction and operation with the safety case;
- Validates and ensures the propagation of input data as used in the safety case and those used in design, construction or operational changes;
- Writes and edits project documentation for safety reports or licensing documents;
- Surveys the overall dangerous inventories (radioactive and chemical);
- Develops the required documents for possession of radioactive material;
- Technically plans and coordinates collaboration including the implementation of safety design;
- Monitors progress and fulfillment of objectives, deliverables and deadlines;
- Reviews task reports for project approval;
- Oversees and guides collaboration to implement the ITER safety approach and to guarantee both consistency and safety provisions within the ITER design and operation;
- Shows strong commitment to the ITER safety approach and enforces it through individual behavior within the Organization;
- May be required to work outside ITER Organization

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My job alert

reference working hours, including nights, weekends and public holidays;

Measures of effectiveness

- May be requested to be support 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 Safety Analysis & Assessment Section Leader;
- Interfaces with all other ITER departments, and with contractors and teams in the Domestic Agencies who support safety analysis work;
- In response to requests from the Director-General and/or the Safety Department Head, or proactively, informs the DG and/or the Safety Department 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.

- Generates and maintains trustworthy, up-to-date information for the project management tools;
- Provides efficient safety guidance to IO and DA ensuring a proper implementation of safety and QA requirements within the defined schedule;
- Issues accurate and high quality level safety analyses and reports;
- Effectively performs the requested calculations for the source term assessment;
- Adequately reports to the line management the activities of safety responsible officer
- Ensures the acceptance of the ITER safety case run by the French Nuclear Safety Authorities are properly handled.

Project Construction Phase
SAP ID5 0000129

Level of study At least Master's Degree or equivalent

Diploma Nuclear Safety or other relevant field

Level of experience At least 8 years

Technical experience/knowledge

- At least 8 years' experience in the writing of safety cases, safety reports or general safety rules for complex nuclear facilities and for submission to a nuclear safety regulator;
- Good experience in the definition and the implementation of the propagation of defined requirements for complex nuclear facilities;
- Practice of hand-guided or computer calculations;
- Good Project Management experience is required;
- Familiarity with the regulatory approach in France, the principles of nuclear safety and understanding of their application in a broader context;
- Knowledge of ITER design and configuration, large scale science and construction projects, fusion technology and experience in analyzing fusion systems is considered as an advantage;
- Demonstrated knowledge either in the behavior of activated corrosion products or in the use of corrosion codes (e.g. Oscar code) or alternatively the practice of corrosion experiments is an advantage;

Project experience 3 to 4 years

Social skills Ability to work effectively in a multi-cultural environment
Ability to work in a team and to promote team spirit

Specific skills MS Office standard (Word, Excel, PowerPoint, Outlook)

General skills

- Ability to read documents in French and to answer in French to the regulator would be an advantage;
- Ability to summarize clearly, synthesize documents and write reports.
- 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.
- Ability to facilitate dialogue with a wide variety of contributors and stakeholders;
- 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 apply high standards of team mindset, trust, excellence, loyalty and integrity.

Others - Knowledge of calculating tools (e.g. Matlab);

Languages English (Fluent)

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