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## JOB DETAIL

Ref. IO1141 - 8/31/2011

## Senior Safety Analyst SQS-026

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**Main job** Nuclear Safety**Department** SQS/Department for Safety, Quality & Security**Division** SQS / Nuclear Safety & Analysis Division**Section** SQS / NSAD / Safety Analysis & Assessment Section**Job Family** Organizational support**Application Deadline** 30/Sep/2011**Grade** P4**Direct employment** Required

**Purpose** To support the Nuclear Safety & Analysis Division Head and the Director of Safety, Quality & Security (SQS) Department in all matters related to ITER safety including the implementation of the safety design and safety analysis;  
 To propose and develop safety strategies and requirements;  
 To perform and coordinate safety analyses, in particular modeling of postulated accident scenarios;  
 To coordinate and integrate the validation & verification of the codes used for the safety analysis;  
 To effectively interface with the ITER designers.

**Main duties / Responsibilities**

- Proposes safety strategies, safety criteria and requirements;
- Defines postulated accident scenarios, develops and uses computational models of ITER systems for analysis of the consequences of these scenarios;
- Technically coordinates safety analyses performed by Participation Teams and by the ITER Nuclear Safety & Analysis Division, in particular in the areas of thermohydraulic analyses and confinement;
- Responds to safety-design integration issues raised by management or technical responsible officers;
- Coordinates the ITER Validation & Verification activity with regard to codes used for safety analysis, in particular the MELCOR code;
- Checks and cross-checks the scope of safety analyses and integrates safety assessments in the design, especially in the areas of Primary Heat Transfer Systems (PHTS) and all aspects of confinement;
- Plans and manages Participation Team safety design tasks and code model developing tasks;
- Prepares documentation of safety analyses and models, including descriptions suitable for submission to nuclear safety authorities;
- Reviews and updates safety documents to reflect safety relevant changes;
- Maintains a strong commitment to the implementation and perpetuation of the ITER Safety Program, values and ethics and to contributing to accelerating the schedule baseline.

**Measures of effectiveness**

- Successfully builds-up and executes all functions as described above;
- Successfully generates and maintains trustworthy, up-to-date information for the project management tools.

**Level of study** Master or equivalent degree**Diploma** in the Nuclear Safety field or other relevant disc**Level of experience** At least 10 years

**Technical experience**

- At least 10 years' experience in the safety, safety analysis, and code validation and verification of large fusion projects;
- Detailed knowledge of the ITER safety approach, safety strategy, ITER design and configuration;

