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JOB DETAIL

Ref. IO1759 - 9/2/2016

Nuclear Safety I&C Engineer - SCOD 019

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| Main job | Nuclear Safety |
| Department | SCOD / Science & Operations Department |
| Division | SCOD / Control System Division |
| Section | SCOD / CSD / Plant Control & Instrumentation Section |
| Job Family | Engineer - 2 |
| Application Deadline (MM/DD/YYYY) | 10/16/2016 |
| Grade | P3 |
| Direct employment | Required |
| Purpose | <p>-To work with the Central Safety System Responsible Officer and contribute to all activities linked to the design of the Central Safety System for Nuclear safety, the qualification of this system as well as the procurement, installation, integration and commissioning of the systems.</p> <p>-To participate in the integration of the different systems composing the Safety Control System for Nuclear safety (SCS-N) by implementing interfaces between the Central Safety System for Nuclear safety (CSS-N) and the plant I&C systems involved in nuclear safety Instrumentation & Control (I&C) functions.</p> <p>Background information:</p> <p>-The SCS-N is composed of the CSS-N and several Plant Safety Systems for Nuclear safety (PSS-N).</p> <p>-The CSS-N, provided by the CSD Division, participates in the protection of personnel against radiological risks, by monitoring and coordinating the PSS-N, which implement the nuclear safety I&C functions.</p> <p>-The SCS-N is subject to licensing by the French nuclear safety authority (ASN) and shall comply with the international nuclear standards (IEC61513 and associated standards).</p> |
| Main duties / Responsibilities | <p>-Contributes to the design, acceptance and installation of the CSS-N, including its technical follow-up (reviewing, analyzing, proposing solutions, testing, resolving problems,...);</p> <p>-Ensures a proper monitoring of the procurement and follow-up of contracts for the Central Safety System for Nuclear safety (CSS-N);</p> <p>-Develops and maintains the needed documentation for the full acceptance of the CSS-N in consistence to nuclear safety I&C standards requirements and Management & Quality Program;</p> <p>-Ensures that guidelines developed by the CSS team are correctly implemented by Plant Systems concerned by nuclear safety I&C;</p> <p>-Participates in the management of procurement contracts and/or support contracts related to the CSS-N;</p> <p>-Collaborates with the ITER Safety Department in order to ensure that the safety requirements are correctly implemented within the CSS-N;</p> <p>-Performs other duties in support of the project schedule;</p> <p>-May be requested to be part of any of the project teams and to perform other duties;</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>-Interacts frequently with Safety Department, plant system responsible officers within the ITER Organization as well as in the Domestic Agencies;</p> <p>-In response to requests from the Director-General and/or Director of Science and Operations, or proactively, informs the DG/ Director of Science and Operations of any important and urgent issues that cannot be handled by the concerned line management and may jeopardize the</p> |

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| | achievement of the Project's objectives. |
| Measures of effectiveness | -Conducts the design of the CSS-N in respect of the ITER IO design rules and in compliance with safety related I&C standards within the defined schedule; -Develops efficiently the interfaces between the CSS-N and plant safety I&C systems which deliver the safety I&C functions within the defined schedule; -Contributes effectively to the achievement of CSS-N objectives meeting project requirement within the defined schedule; -Prepares effectively the validation, installation and commissioning of the SCS-N; -Keeps the relevant documentation up-to-date. |
| | Project Construction Phase |
| Level of study | Master or equivalent degree |
| Diploma | Engineering / Safety Engineering field |
| Level of experience | At least 8 years |
| Technical experience/knowledge | -Masters' degree or equivalent in the Engineering / Safety Engineering field or other relevant discipline; -Extensive practical experience in similar jobs (involving similar work responsibilities), apprenticeship and professional training certificates in relevant domains may be considered a reasonable substitute for the required educational degree. |
| Social skills | Ability to work effectively in a multi-cultural environment Ability to work in a team and to promote team spirit Ability to communicate effectively |
| General skills | -At least 8 years of practical experience in engineering of safety I&C systems; -Practical experience in integration of nuclear safety I&C systems in large facilities; -Relevant experience in the design of large scale heterogeneous safety related I&C systems; -Expertise in international safety I&C related standards: IEC 61513, RCC-E, IEC 61226, IEC 62138; -Practical experience in conducting acceptance and commissioning of fields sensors/actuators & tests of safety I&C systems; -Relevant experience in RAMI analyses of safety related systems; -Practical experience in Siemens safety PLC and HIMA Planar 4 platforms/architectures is considered as an advantage; -Experience in contract management and in the implementation of the IEC 61513 lifecycle. |
| Others | -Excellent computer and IT skills are mandatory. |
| Languages | English (Fluent) |

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