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JOB DETAIL

My space Ref. IO1771 - 9/30/2016 See jobs **Transient Thermal Hydraulic Analyst - PED-063** Mv iob alert Main job Hydraulics Department PED / Plant Engineering Department Division PED / Cooling Systems Engineering Division Section PED / CSED / Cooling Water System Section Job Family Engineer - EC **Application Deadline** 11/13/2016 (MM/DD/YYYY) Grade P1 Direct employment Not required -To perform transient analyses for the ITER Tokamak Purpose Cooling Water System (TCWS) with particular focus on the Vacuum Vessel Primary Heat Transfer System (VV-PHTS), the Integrated loop of Blanket, Edge Localized Mode-Vertical Stabilization Coils, and Divertor Primary Hath Transfer System (IBED-PHTS) and the Drying System (DYS) in support to Final Design. -To study the different configurations of the TCWS from First Plasma to Deuterium/Tritium operation. -Performs transient analyses for the ITER Tokamak Main duties / Cooling Water System (TCWS) with particular focus on the Responsibilities Vacuum Vessel Primary Heat Transfer System (VV-PHTS), the Integrated loop of Blanket, Edge Localized Mode-Vertical Stabilization Coils, and Divertor Primary Hath Transfer System (IBED-PHTS) and the Drying System (DYS) in support to Final Design; -Performs transient analyses simulating normal operation conditions, baking and respective transitions, as well as upset or perturbed conditions; -Performs transient analyses of incidental and accidental events to evaluate plant response and test the safety features of the TCWS: -Develops a coupled model of the VV-PHTS. IBED-PHTS and DYS to simulate conditions in which the three systems work in parallel, to be used as a basis for the TCWS simulator -Collaborates with process engineers to finalize the TCWS design (e. g. equipment sizing, I&C, etc.) and supports development of operational procedures for the TCWS, for normal operation and incidental and accidental conditions; -Analyzes in dynamic mode the different TCWS configurations from First Plasma to DT operation; -Supports the Safety Department in the formal safety assessment of the TCWS -Support TCWS section for any activity related to dynamic simulations of TCWS subsystem; -Performs other duties in support of the project schedule; -May be requested to be part of any of the project team and perform other duties; -Maintains a strong commitment to the implementation and perpetuation of the ITER Safety Program, values and ethics -Reports to Cooling Water System Section Leader; -In response to requests from the Director-General and/or Plant Engineering Department (PED) Head, or proactively, informs the DG/PED 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 -Develops accurate reports on transient analyses of TCWS effectiveness for the Final Design Review; -Develops a coupled model of the VV-PHTS, IBED-PHTS and DYS to simulate conditions in which the three systems work in parallel, to be used as a basis for the TCWS simulator within the defined schedule: -Develops transient analyses for the different TCWS configurations from First Plasma to DT operation within

the defined schedule:

| | -Supports efficiently the finalization of the TCWS design; -Develops effectively reports to be submitted to the Safety Department for the formal safety assessment of the TCWS; -Develops efficiently V&V reports for the software used to perform the analyses. |
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| | Project Construction Phase |
| Level of study | At least Master's Degree or equivalent |
| Diploma | Nuclear Engineering field |
| Level of experience | At least 2 years |
| Technical experience/knowledge | -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. |
| 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 | -At least 2 years' experience in transient analyses of nuclear cooling water systems; -Experience in design of nuclear cooling water systems (i. e. pumps and Heat exchanger sizing, development of operational procedures, etc.); -Experience in transient analyses of cooling water systems of fusion reactors and/or in a relevant software house is an advantage. |
| Others | -Knowledge and experience in the use of Relap5; |
| | advantage. |
| Languages | English (Fluent) |
| | |

For more information about ITER, visit our web site : http://www.iter.org