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JOB DETAIL

Ref. IO1793 - 11/21/2016

Stress Analysis Technician - TCWS-033

Main job	Mechanics
Department	PED / Plant Engineering Department
Division	PED / Tokamak Cooling Water System Division
Section	PED / TCWS / Tokamak Cooling Water System Design Section
Job Family	Technician - 3
Application Deadline (MM/DD/YYYY)	12/31/2016
Grade	G5
Direct employment	Required
Purpose	<p>-To perform the mechanical design and stress analyses of the piping, supports and Nuclear Pressure Equipment for the Tokamak Cooling Water System (TCWS);</p> <p>-To support the Tokamak Cooling Water System Division during procurement and assembly of the assigned equipment;</p> <p>-To support the TCWS Division during testing of the TCWS equipment.</p>
Main duties / Responsibilities	<p>-Prepares stress analyses and mechanical calculations according to the applicable ASME codes (e.g. ASME B31.3, ASME VIII, III, etc.) by using appropriate software (e.g. Caesar II, GTSTRUDL, ANSYS or);</p> <p>-Prepares stress reports for TCWS piping and supports;</p> <p>-Prepares support drawings for TCWS;</p> <p>-Reviews and integrates in the design proposals from subcontractors for both pipe routing and support location/typology, as well as from US-DA for Equipment;</p> <p>-Proposes common supports for piping belonging to several PBSs;</p> <p>-Works in strong collaboration with the CAD team in layout integration issues and perform piping and support design according to the integrated layout;</p> <p>-Prepares general arrangements and detailed drawings of Nuclear Pressure Equipment;</p> <p>-Produces loads draft reports in coordination with other disciplines or clients (Building, static and rotating equipment, supports design, etc.);</p> <p>-Participates in the design and conformity assessment of the Tokamak Cooling Water System according to the French regulations for nuclear or non-nuclear pressure equipment (ESP/ESPN) and following required design codes and standards as per Licensing Design Basis;</p> <p>-Participates in the systems design, fabrication and modularization of Tokamak Cooling Water System according to the prescriptions of the French Nuclear Regulator - Autorité de Sûreté Nucléaire (ASN) and also following the indications of the concerned Agreed Notified Body (ANB);</p> <p>-Participates in the manufacturing of Tokamak Cooling Water Systems;</p> <p>-Supports the Tokamak Cooling Water System Design Section for the design, procurement, assembly and/or installation and operation phases of the Tokamak Cooling Water System components in close collaboration with Domestic Agencies and other ITER Directorates;</p> <p>-Performs other duties in support of the project schedule;</p> <p>-Maintains a strong commitment to the implementation and perpetuation of the ITER Safety Program, values and ethics.</p>
Measures of effectiveness	<p>-Reports to the Tokamak Cooling Water System Design Section Leader;</p> <p>-Acts as an interface with other internal and external resources for the design of the Tokamak Cooling Water System components;</p> <p>-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</p>

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Project's objectives.

- Performs piping stress analysis and produces stress reports with a high quality standard;
- Performs support design and produces support drawings with a high quality standard;
- Strongly and proactively collaborate with the CAD team for layout integration;
- Assures satisfaction of safety and functional requirements flow down.

Project Construction Phase

Level of study	Master or equivalent degree
Diploma	Nuclear, Structural, or Mechanical Engineering
Level of experience	At least 5 years
Technical experience/knowledge	<p>-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.</p> <p>-At least 5 years' experience in the detailed design of Nuclear Piping Systems (including support design) or Nuclear Pressure Vessels;</p> <p>-Detailed knowledge of Nuclear Piping Systems or Nuclear Pressure Vessels and the associated design codes, with particular reference to ASME B31.3 and ASME VIII;</p> <p>-Basic experience in the System Engineering of complex Nuclear projects;</p> <p>-Basic experience in the Cold Sinks Engineering of complex systems and projects;</p> <p>-Knowledge of the ESP/ESPN regulations and practical application will be considered advantageous.</p>
Social skills	Ability to work effectively in a multi-cultural environment Ability to work in a team and to promote team spirit
Specific skills	Ansys CATIA Computer Aided Design MS Office standard (Word, Excel, PowerPoint, Outlook)
Others	<p>-Good Knowledge of Caesar II and GDSTRUDL</p> <p>-Good knowledge of CAD software (AVEVA and CATIA)</p> <p>-Good Knowledge of MS Office standard (Word, Excel, PowerPoint, Outlook) is required;</p> <p>-Knowledge of General Purpose FEM analysis software (ANSYS);</p>
Languages	English (Fluent)

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