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JOB DETAIL

Ref. IO1769 - 9/29/2016

Piping Installation Specialist PED-083

Main job	Hydraulics
Department	PED / Plant Engineering Department
Job Family	Engineer - 1
Application Deadline (MM/DD/YYYY)	11/06/2016
Grade	G6
Direct employment	Required
Purpose	-To fix resolution of in-field design changes associated to embedded plates design implementing on-site calculations; -To fix the piping stress analysis for as built configuration of piping layout inside the ITER Project buildings according to the ASME ANSI B31.3 Codes as well as RCC-M; -To manage in field design changes during construction phase according to Safety and Quality Assurance (QA) rules getting resolution of technical issues in real time to support progress in construction activities without affecting the time schedule; -To produce piping isometric drawings and associated spooling with supports locations and supports detailed drawings as required for construction work packages preparation using AVEVA PDMS 3 Models;
Main duties / Responsibilities	-Takes in charge the resolution of in-field design changes generated during construction activities and promote resolution in real time properly satisfying Safety and Quality Assurance rules; -Takes in charge the resolution of as built configuration in penetrations lay out for multiple / single pipes crossing, management of the local loads, implementation of foams / mortar / reinforced concrete configuration during the installation process according to the specific requirements of each wall penetrations for all buildings of the Plant; -Takes in charge the resolution of the Project Change Requests generated during the construction activities; -Produces static and dynamic stress analysis and associated stress reports of the piping systems and associated supports as well as for equipment in real time during installation sequence in real time not to produce any delay during the installation process; -Performs the selection of constant and variable springs as well as dynamic shock absorbers or gapped supports, issues the procurements technical specifications for constant /variable springs, dynamic shock absorbers and gapped supports. -Participates to the requested design optimization of the piping systems introducing modularity, pre-assembly or prefabrication, using spools, skids and support structures, as required by the piping assembly requirements; -Reviews and assesses the documents and drawings prepared by the manufacturers; -Participates to the prefabrication or pre-assembly of the piping in skids or spools with supporting structures as proposed by the manufacturer and according to the IO assembly schedule; -Produces all the required documentation in completing the stress report as isometric drawings with supports location, supports detailed drawings, technical specifications for procurement dynamic shock absorbers,
Measures of effectiveness	constant and variable springs, steel frames supports, gapped supports according to the as built configuration; -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.

	-Under the coordination of the Team Leader, Field Engineering Installation Division Head;; -Acts as an interface between the In-field engineering Team and the Construction Management-as-Agent (CMA) as well as other on site Contractors; -In response to requests from the Director-General (DG) 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. -Provides all inputs necessary to install the piping systems according to the defined schedule; -Performs the resolution of the in-field design changes / deviation requests in real time and supports the resolution of the issue according to Safety Department policy ; -Assures the implementation of the Construction Work Packages during construction activities assuring the full compliance with the as built configuration; -Assures satisfaction of safety and functional requirements flow down. Project Construction Phase
Level of study	Master or equivalent degree
Level of experience	At least 5 years
Technical experience/knowledge	-Master's Degree or equivalent in Nuclear or Mechanical or Civil – Structural Engineering; -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; -Good knowledge of large piping system and support design -At least 5 years' experience in nuclear or mechanical or civil / structural engineering, -Experience in management of in-field design changes generated during construction activities; -Experience in the seismic design of piping systems /supports and steel structures for Nuclear Facilities, -Knowledge of the EU Pressure Equipment Directive or French ESP/ESPN regulations and practical application will be considered advantageous; -Experience in installation and testing of complex industrial system will be considered as advantage.
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
General skills	-At least 5 years' experience in nuclear or mechanical or civil / structural engineering, -Experience in management of in-field design changes generated during construction activities; -Experience in the seismic design of piping systems /supports and steel structures for Nuclear Facilities, -Knowledge of the EU Pressure Equipment Directive or French ESP/ESPN regulations and practical application will be considered advantageous; -Experience in installation and testing of complex industrial system will be considered as advantage.
Others	-Excellent knowledge of structural design codes AISC, Eurocode, etc. & knowledge of ASME III related chapters as well as RCC is also be appreciated; -Excellent knowledge of the Structural Codes GTSTRUDL ,STRUDL, CAESAR II, PIPESTRESS , CAEPIPE or NUPIPE or similar software; -Good knowledge of Finite Element Method analysis software (ANSYS) is appreciated; -Good knowledge of 2D-3D CAD software (AVEVA PDMS and Catia).
Languages	English (Fluent)

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