IO1420 HVAC System Engineer CEP-157

General information

Job category	Standard
Status	Published
Department	DIP/Department for ITER Project
Division	PSE/Plant Engineering Division
Section	PSE/ PED/ Cooling Water System Section

Job description

Main job	Engineering - Mechanics
Title of the position	HVAC System Engineer CEP-157
Job family	Engineer - 1
Grade	P2
Direct employment	Not required
Purpose	To contribute to the integration of Nuclear Systems and processes for Heating Ventilation Air Conditioning (HVAC), as single and integrated with other systems and users; To manage the layout, integration, Quality Control (QC) of Nuclear systems for HVAC; To perform safety analyses for supporting systems design in normal and accidental conditions within and beyond the design basis in single and integrated configurations.
Main duties / Responsibilities	Develops and support the process, functional analysis and control logic design studies of the HVAC system; Assures the dynamic confinement function and the sequential depressurization level in different areas of the Buildings; Participates to the design and conformity assessment of the HVAC according to the French rules and following required design codes and standards as per Licensing Design Basis; Develops process design of HVAC taking care of all the governing variables in terms of authorized velocity, air flow rate , air exchange rates, depressurization levels; Develops the control logic as well as the instrumentation system to monitor the environmental conditions and pressurization levels ; Assures fruitful and continuous integration in HVAC systems commissioning issuing and supporting issues of commissioning technical specifications and procedures. Runs the process sizing of the HVAC system and proper sizing all the interfaces; Proposes and implements global and local control logic system properly supported by local instrumentation and control room high level vision; Performs safety analyses in terms of dynamic environmental confinement for different scenarios; Performs risk analyses for systems functional design within and beyond design basis, investigating risks in the Interfaces matrix, risk in the safety Issues, risks in the performances during operational and accidental scenarios; Performs other duties in support of the project schedule as described in the Detailed Work Schedule and the Strategic Management Plan; Performs other duties linked to the above purpose upon management request, as necessary; Maintains a strong commitment to the implementation and perpetuation of the ITER Safety Program, values and ethics. Reports to the Cooling Water System Section leader; Acts as an interface with other internal and external resources for the design of the HVAC; In response to requests from the Director-General and/or CEP directorate Director, or proactively, informs the DG/ CEP directorate Director 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 effectiveness	Manages the design of the HVAC in a timely manner, within defined costs; Assures satisfaction of safety and functional requirements flow down. Project Construction Phase

	ID SAP:50000269

Applicant criteria

Level of study	Master or equivalent degree
Diploma	Nuclear Engineering / Mechanical Engineering.
Level of experience	At least 5 years
Technical experience	At least 5 years' experience in the System Engineering of complex Nuclear projects; including at least 2 years' experience in the HVAC systems design and related QC is required;
Social skills	Ability to work effectively in a multi-cultural environment , Ability to work in a team and to promote team spirit
General skills	Basic Project Management experience is required.
Languages	English (Working)
Specific skills	Computer Aided Design, MS Office standard (Word, Excel, PowerPoint, Outlook)
Others	Required Knowledge: - Computational Fluid Dynamics (CFD) software; - 2D-3D CAD software is considered as an advantage.