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Ref. IO1833 - 3/15/2017

Assembly Engineer - CST-069

Main job	Mechanics
Department	CST / Construction Department
Division	CST / Tokamak Assembly Section/Division
Job Family	Engineer - 1
Application Deadline (MM/DD/YYYY)	04/27/2017
Grade	P2
Direct employment	Not required
Purpose	To contribute to the feeder special process assembly preparation and execution follow-up. To prepare the assembly documentation and develop/implement the quality control plan. To define and supervise the fabrication of the special tooling for feeder assembly. To organize and conduct training program of special assembly processes for on-site operators.
Main duties / Responsibilities	-Contributes to the integration of Magnet Feeder specialty processes with related general construction tasks; -Composes and reviews/revises Feeder assembly and inspection procedures and work instructions; -Develops and conducts training programs for Feeder specialty on-site assembly operators emphasizing on the assembly of feeder busbar joint, the high voltage insulation and also for Feeder specialty on-site assembly operators during plant construction period ; -Develops/reviews the functional specifications and conceptual designs of the Feeder component mockups and assembly tooling; -Reviews manufacturing CAD models and drawings of the Feeder component mockups and assembly tooling; -Provides technical supports and proposes improvements to the manufacturing of Feeder mockups and assembly tooling, and supervises the qualifications and acceptance tests at supplier's site; -Improves the assembly procedures, the workflow of operators, and the tooling performance to expedite the feeder assembly; -Coordinates in collaboration with the Construction Manager as Agent (CMA) the Feeder on-site assembly activities to ensure the quality of assembly tasks, conducts the acceptance test in assembly procedure, and assists Feeder engineers to resolve technical issues; -Manages in collaboration with the CMA records of the Feeder assembly control points, the acceptance tests, the deviation requests, and the non-conformance; -May be required to work outside normal working hours, including nights, weekends and public holidays; -Performs other duties in support of the project schedule; -May be requested to be part of any of the project/construction teams and to perform other duties; -Maintains a strong commitment to the implementation and perpetuation of the ITER Safety Program, values and ethics. -Reports to the TAD section/division head -Interfaces with Special Process Project Manager, component/assembly ROs in Magnet Feeder and instrumentation teams;
Measures of effectiveness	-In response to requests from the Director-General (DG) and/or Construction Department (CST) Head, or proactively, informs the DG/CST 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. -Timely generates Feeders assembly and inspection plan and procedures, and technical specifications for designs of assembly tooling and mockups; -Monitors efficiently the fabrication of assembly tooling and mockups within defined cost; -Coordinates and executes efficiently Feeders assembly activities; -Organizes successfully training program for on-site assembly operators; -Manages accurately and regularly the Feeder assembly database; -Maintains effective communication within the ITER Organization colleagues and stakeholders. Project Construction Phase

Level of study	Master or equivalent degree
Diploma	Engineering
Level of experience	At least 5 years
Technical experience/knowledge	-Mechanical, material and electrical knowledge is a plus; -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. -At least 5 years' postgraduate experience in bolting/ welding assembly of large components with tight tolerance; -Experience in writing comprehensive assembly procedures and work instructions; -Hands-on experience in tooling application, design and fabrication for tight space assembly; -Familiarity with 3D CAD model and manufacturing drawings; -Familiarity with QC implementation for industrial production; -Experience with normal or superconducting magnet production and assembly, including high voltage insulation systems; -Good technical Project Management experience is required.
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
Specific skills	CATIA ENOVIA MS Office standard (Word, Excel, PowerPoint, Outlook)
General skills	-Ability to both work in a team and coordinate / supervise a group of professionals; -Ability to communicate clearly and write technical reports and specifications in English;
Others	-Good command of the Microsoft Office package; -Previous experience with the use of Catia V5 and ENOVIA management system or PDM (Product Data Management) software would be of benefit.
Languages	English (Fluent)

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