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JOB DETAIL

Ref. IO1693 - 4/14/2016

Magnet Engineer TED-060

|                                   |  |
|-----------------------------------|--|
| Main job                          | Mechanics  |
| Department                        | TED / Tokamak Engineering Department   |
| Division                          | TED / Magnet Division  |
| Section                           | TED / MAG / TF Coil Section  |
| Job Family                        | Engineer - 2   |
| Application Deadline (MM/DD/YYYY) | 05/15/2016   |
| Grade                             | P3   |
| Direct employment                 | Not required   |
| Purpose                           | <p>To assist Toroidal Field (TF) magnet Technical Responsible Officers (TROs) in organizing and following up magnet production at Domestic Agencies (DAs) and suppliers.</p> <p>To review of TF magnet production and Quality Assurance / Quality Control (QA/QC) documents.</p> <p>To oversee implementation of TF magnet QA/QC at DAs and suppliers.</p> <p>To contribute to resolution of problems and non-conformities arising during TF magnet production at DAs and suppliers.</p> <p>To contribute to development of TF assembly plan and documentation.</p>  |
| Main duties / Responsibilities    | <ul style="list-style-type: none"><li>• Oversees development and implementation of Toroidal Field (TF) coil manufacturing and Quality Assurance / Quality Control (QA/QC) plans at magnet suppliers;</li><li>• Reviews TF coil manufacturing drawings, procedures and QA/QC documents generated by Domestic Agencies (DAs) and their suppliers;</li><li>• Reviews manufacturing, quality and test records generated by TF magnet suppliers;</li><li>• Witness critical activities at magnet supplier;</li><li>• Contributes to problem solving during magnet production and resolution/assessment of non-conformities reports;</li><li>• Contributes to development of assembly and inspection plans for TF magnet components;</li><li>• Contributes to development of TF assembly procedures;</li><li>• Contributes to verification, mock-ups and prototyping activities at the Magnet Workshop;</li><li>• Contributes to updates of TF magnet baseline documentation and interface sheets;</li><li>• Performs other duties in support of the project schedule as described in the Detailed Work Schedule and the Strategic Management Plan;</li><li>• May be requested to be part of any of the project team and performs other duties upon management request;</li><li>• Maintains a strong commitment to the implementation and perpetuation of the ITER Safety Program, values and ethics.</li></ul><br><ul style="list-style-type: none"><li>• Reports to the TF Section Leader;</li><li>• Interfaces with magnet Procurement Arrangement (PA) Technical Responsible Officers (TROs) and Responsible Officers (ROs) in all sections of the Magnet Division.</li><li>• Interfaces with other departments as required by the magnet production, in particular with the CAD Office, the Cryogenic and Electrical Divisions, the Design Office and the Assembly.</li><li>• In response to requests from the Director-General and/or Tokamak Engineering Department (TED) Head, or proactively, informs the DG/ TED 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.</li></ul> |
| Measures of effectiveness         | <ul style="list-style-type: none"><li>• Supports magnet Procurement Arrangement monitoring;</li><li>• Contributes to manufacturing and Quality Assurance / Quality Control (QA/QC) plan development and implementation within the defined quality, cost and schedule requirements;</li><li>• Contribute efficiently to manufacturing drawings.</li></ul>   |

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RSS

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procedures and QA/QC document review;  
• Contribute to problem solving and Non-Conformance Report (NCR) resolution at magnet suppliers;  
• Contribute effectively to assembly plan and procedure development.

Project Construction Phase

|                                |   |
|--------------------------------|---|
| Level of study                 | At least Master's Degree or equivalent  |
| Diploma                        | Engineering   |
| Level of experience            | At least 8 years  |
| Technical experience/knowledge | At least 8 years' experience in design, manufacture, assembly and integration of superconducting magnet and cryogenics systems;<br>Practical experience in assembly work and heavy duty handling of large structure with tight tolerances;<br>Familiarity of non-destructive examination techniques such as visual inspection, dye penetrant inspection, helium leak detection, ultrasonic inspection, and radiographic examination of welds and brazes, and applicable codes and standards for the implementation and acceptance criteria;<br>Experience with international codes and standards such as ISO, EN, RCC-MR, ASTM and ASME for construction of pressure equipment and/or nuclear equipment;<br>Experience / knowledge in assembly of large components operated at cryogenic temperature and affected by high hydraulic pressure and mechanical loads;<br>Knowledge / experience in high voltage insulation using glass fiber reinforced composite material for cryogenic application and high voltage test of insulation is a plus |
| Project experience             | 4 to 5 years  |
| Social skills                  | Ability to work effectively in a multi-cultural environment<br>Ability to work in a team and to promote team spirit   |
| Specific skills                | MS Office standard (Word, Excel, PowerPoint, Outlook)   |
| General skills                 | — Good knowledge in structural, thermo-mechanical and thermo-hydraulic design, analysis and engineering assessment;<br>— Mechanical, material and electrical knowledge is a plus.<br><br>— Ability to both work in a team and coordinate / supervise a group of professionals;<br>— Ability to communicate clearly and write technical reports and specifications in English;   |
| Languages                      | English (Fluent)  |

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