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| TITLE: Diagnostic Physicist | | CHD 023 |
| CODAC&IT, H&CD and Diagnostics / Diagnostics | | |
| REPORTS TO LINE MANAGER: Divisional Head (DH) for Diagnostics | | |
| DIRECT EMPLOYMENT: NOT REQUIRED | | GRADE RANGE: P2 – P4 |
| DATE WRITTEN: | DATE REVISED: | DATE REVISED: |

Purpose:

Support the Division Head in all matter relating to the implementation of ITER diagnostics. Develop the designs of diagnostic systems by personal contribution and by specifying, monitoring and coordinating work in the laboratories and institutes of the ITER Partners, including any relevant supporting R&D, with emphasis on in-vessel systems particularly the magnetic diagnostics. Manage scope, schedule and cost of procurement of some of the diagnostic systems and supporting hardware through specified procurement packages.

Major Duties/Responsibilities:

- Supports the DH in all matters related to the Diagnostic system for ITER construction.
- Participates in the development of the requirements for plasma and first wall measurements and the selection of diagnostics to meet them.
- Develops the designs of diagnostic systems by personal contribution and by specifying, monitoring and coordinating work in the laboratories and institutes of the ITER Partners, including any relevant supporting R&D, with emphasis on in-vessel systems particularly the magnetic diagnostics.
- Assist with the preparation of the relevant procurement packages.
- Assists with the management of the scope, schedule and cost of procurement of the associated diagnostic systems and supporting hardware through the specified procurement packages.
- Assists with the preparation of the interface documentation and keeping it up to date.
- Assists with the preparations for the installation of the diagnostic systems on ITER.
- Reports variances on all technical, cost and schedule aspects immediately to the DH.
- Supports effective risk identification and management.
- Shows strong commitment to the ITER safety program and enforces it through individual behaviour and in his organization.
- Maintains a strong commitment to the implementation and perpetuation of ITER values and ethics.

Qualifications Required:

PhD in a relevant area with working experience for at least five years. Expertise in the design and integration of diagnostic systems in fusion research facility with excellent technical and managerial leadership. Experience in effective QA management and implementation would be an advantage.

Work Direction and Interfaces:

Reports to the DHof Diagnostics.

Authority/Approval Levels:

Has authority and approval levels defined by the DH for his scope of work.

Measures of Effectiveness:

- Successfully develops the design of diagnostic systems.
- Successfully prepares the relevant procurement packages.
- Successfully manages the procurement of the diagnostics.
- Successfully develops cost effective installation and testing plans.
- Successfully maintains effective communications with all parties delivering subsystems for the diagnostic systems.
- Successfully supports the diagnostics need of the project.