

TITLE: Design Collaboration Infrastructure Engineer		CEP-091
REPORTS TO LINE MANAGER: Leader of Control Section, Design Office, Department for Central Engineering and Plant Support		
DIRECT EMPLOYMENT: REQUIRED		GRADE RANGE: G5 - G6
Date Written: July, 2008	Date Revised:	Date Revised:

Purpose:

To monitor and act on the developments, tests, deployments and maintenance of the Design Office (DO) collaboration infrastructure enabling the Computer-Aided Design (CAD) with the Domestic Agency (DA) Design Offices. To support the collaborative approach by providing the relevant monitoring and technical support to the Design offices of both the ITER Organization and DAs.

Major Duties/Responsibilities:

- Be responsible for the development, tests, deployment and maintenance of Product Lifecycle Management (PLM) and CAD tools and methodologies used in the collaborative framework involving the Design offices of the ITER Organization and Domestic Agencies:
 - CAD and PLM database replication,
 - Engineering Package exchange,
 - Optimizations of direct remote connections.
- Participates in the development of interfaces between PLM (Enovia) and engineering databases, and defines the Engineering database use and practices in the context of design collaboration;
- Assists the Design Office Collaboration Coordinator and DO PLM Coordinator in the establishment and maintenance of Quality Assurance related to the use of CAD and PLM systems in the DO, especially when related to design collaboration. This includes: Edition of Procedures, How-to, Definition of quality indicators, and measurement of effectiveness;
- Interacts on a daily basis with the DO counterparts in the DAs to support the establishment and application of collaboration methodologies and procedures at DA sites;
- Organizes and provides IO and DA users with Trainings and Coaching on PLM collaborative solutions. (resulting from daily assessment and questions.)
- Deals with a range of QA, CAD and database practices in the area of design collaboration involving mechanical and plant design as well as simulation, such as design life-cycle, modelling, drafting, Bill-of-Materials, libraries, identification, naming conventions, design changes, document tracking, organization, roles and responsibilities, checking procedures, standards;
- Contributes to auxiliary DO-related activities;
- Maintains a strong commitment to the implementation and perpetuation of the ITER safety program, values and ethics.

Qualifications and Experience:

- **Education:** Technical College diploma or equivalent in Computer-Aided Design or Computer Science.
- **Experience:** A minimum of 6 years' experience in a position of responsibility within an IT CAD + PLM Integrator Company or equivalent, involving programming activities, management of developments, CAD and PLM solutions deployment at the site of industrial users. Users' trainings and assistance;
- A thorough knowledge of network matters, database management and administration and automation environment (VB, CAA) and demonstrated applications is mandatory;
- Experience with ENOVIA LCA -VPM5 would be suitable. Experience with previous versions of advanced VPM or with other integrated database systems would be advantageous;
- The Demonstrated ability to produce high-quality results which have stood the test of being used daily in design offices working in a collaborative manner is highly suitable;
- Excellent ability to organize and monitor development activities;
- Good communication skills and ability to work towards predefined goals with a high level of autonomy is essential;
- **Language requirements:** High level of written and spoken English.

Work Direction and Interfaces:

- Reports to the Design Office Configuration Control Section Leader in the Department for Central Engineering and Plant Support.
- His activities are developed in closed collaboration with: the ITER DO PLM coordinator and the ITER DO Collaboration coordinator, and the coordination at the DO Support level.
- Interfaces, within the scope of the developments mentioned above, with the
 - Domestic Agency Design Office Collaboration coordinator: Promotes ITER Design Collaboration best practices, organizes remote-user trainings and coaching, assesses DA Design Office needs;
 - ITER Information Technology group: Defines specifications and requirements on design collaboration solutions;
 - Software editors: Develops specifications, monitors outsourced customizations and developments, and participates in the Design Office's World Wide Support Program.

Authority/Approval Levels:

Has authority and approval levels generally defined by the Design Office Head for his/her scope of work.

Measures of Effectiveness:

- Successfully provides an efficient and high quality service to the ITER and DA DO in the area of design collaboration;
- Successfully contributes to the development of the staff: technical capabilities, CAD tools team spirit etc;
- Successfully establishes a good collaborative relationship with all involved internal and external organizations.