TITLE: CODAC System Designer CODAC&IT, H&CD and Diagnostics / CODAC			CHD 008
<b>REPORTS TO LINE MANAGER: Division Head, CODAC &amp; IT</b>			
DIRECT EMPLOYMENT: NOT REQUIRED		GRADE RANGE: P2 - P4	
DATE WRITTEN:	DATE REVISED:		DATE Revised:

### **Purpose:**

The candidate will report to the Division Head (DH), CODAC & IT. The candidate will take a leading role in the development of the ITER COntrol, Data Access and Communications system (CODAC). Initially the work will concentrate on the engineering design of the CODAC software systems, especially on the creation of an appropriate formal architecture using state of the art tools. The work will lead to the development of a full working prototype, developed in a high-level language to demonstrate and test functionality as support to the design. In parallel, the work will lead to the development of the specifications for a high performance high reliability software system, to be procured externally.

### Major Duties/Responsibilities:

- The candidate will be responsible for managing the outsourcing of much of the design work. This post is creative and will require strong interaction with other members of the CODAC design group.
- This post requires a broad view of CODAC, from the data originating in instrumentation and control, through the specific CODAC data systems and plant control systems, up to the use of research data.

# **Qualifications Required:**

- The successful candidate will have at least 10 years of practical experience in a research environment and a university training in science or engineering.
- A clear understanding of the physics research environment is essential. An ability to work in an international environment should be demonstrated. Experience of physics projects of this type would be a strong advantage.
- Good working knowledge of spoken and written English is essential.

# Work Direction and Interfaces:

Reports to the Divisional Head (DH) for CODAC & IT

# 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 interfaces of CODAC components with the main tokamak components.
- Successfully develops conceptual, outline engineering designs for key CODAC components located in the harsh ITER environment.
- Successfully prepares technical specifications of allocated procurement packages.
- Successfully manages procurement of CODAC components through procurement packages.
- Successfully prepares for the installation of the CODAC systems on ITER.
- Successfully supports the CODAC needs of the project.