

TITLE: Industrial Controls Specialist		CHD-006
REPORTS TO LINE MANAGER: Division Head CODAC&IT, H&CD and Diagnostics / CODAC		
DIRECT EMPLOYMENT: NOT REQUIRED		GRADE RANGE: P3 - P4
DATE WRITTEN: December 2007	DATE REVISED:	DATE REVISED:

Purpose:

- A large fraction of the various systems for ITER relies on industrial controls. Many systems have safety and investment protection requirements. A specialised engineer, expert in industrial controls, is required to coordinate the follow up of the specifications, construction and tests of the industrial control for the CODAC central systems as well as the plant systems.

Major Duties/Responsibilities:

- Is responsible for establishing the ITER-wide solutions for industrial controls;
- Contributes to specification, tests, integration and operation activities of ITER systems, as a control expert;
- Develops engineering designs for key control components located in the harsh ITER environment;
- Organises the procurement and support of standardised control components (SCADA, PLCs, Field buses);
- Develops common procedures for the specification and integration of plant systems automation;
- Prepares technical specifications for allocated I&C procurement packages;
- Manages the procurement of the controls included in the procurement packages, interacting with the teams working in the Domestic Agencies of the ITER Members as necessary;
- Supports effective risk identification and management.

Qualifications Required:

- The successful candidate will have a university (or equivalent) diploma in science or engineering and at least 10 years of practical experience in a research or industrial environment with a similar scope of work;
- A clear understanding of the problems linked to the control system of a large facility is required. Experience of high reliability installations would be a strong advantage;
- Experience of physics projects of this type would be a advantage;

- An ability to work in an international environment should be demonstrated;
- Good working knowledge of spoken and written English is essential.

Work Management structure 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/her scope of work.

Measures of Effectiveness:

- Successfully establishes ITER-wide standards related to industrial controls;
- Successfully organises the procurement and support of standard components for the plant systems;
- Successfully prepares or controls the technical specifications of allocated procurement packages;
- Successfully prepares for the integration and tests of the ITER plant systems;
- Successfully supports the industrial control needs of the project.