Human Factors Applications

Our Services: Control Facilities Design

Summary

Human Factors Applications can provide a comprehensive and detailed, user-led approach to manage the design, implementation, and verification & validation of control facilities.

Our Services

- Delivery of **viable design solutions** encompassing whole-project lifecycle, including:
  - Basis-of-design;
  - Operating concept;
  - Detailed engineering;
  - Implementation and handover;
  - Assured continuity-of-operations.

- Provision of Crisis & Operability analyses for existing facilities;

- We can also provide complementary services to enhance operator Situational Awareness, vigilance & alertness, and management of abnormal situations.

Our Experience

Over 20 years' industry experience, including the delivery of over 200 projects for many clients. This has given us a unique understanding of corporate & regulatory governance, and how these can be effectively implemented in-practice.

Typical activities, and past projects include:

- Developing control room layouts, allocating tasks and understanding building links, in collaboration with operations & maintenance staff;

- Coordinating control room centralization projects – moving from decentralized, local control centres to a single remote centralized control environment;

- Scotford Upgrader Expansion – managing the human operations of a new-build control building in a cold environment, on behalf of Shell;

- Green Diesel Project Centralized Control Facility – delivering a new control building with 70 rooms, located in a hazardous zone in an area subject to extreme temperature variations and sandstorms.
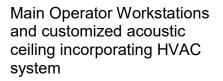
Below are some of our in-house renderings for a recent design project.

Supervision team's console with simulated windows

Main Operator Workstations and customized acoustic ceiling incorporating HVAC system

Consoles and break-out area