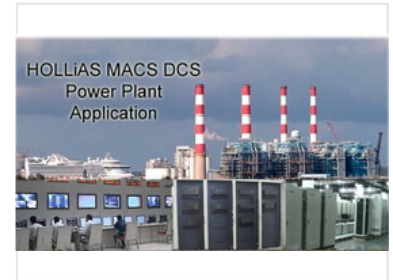


Power Plant Distributed Control System (DCS)

This distributed control system (DCS) application is designed for power plant automation. It features real-time monitoring and control interfaces suitable for managing complex power generation processes.



Overview

Comprehensive Power Plant Automation

This Distributed Control System (DCS) provides a total automation and control solution designed specifically for thermal power generation. The system integrates advanced control capabilities across all production aspects, from boilers and steam turbines to water, coal, and ash network management. It supports both conventional and advanced coordination control, ensuring seamless plant-level monitoring and simulation system integration.

System Architecture

Supported Sub-systems

- DAS (Data Acquisition System)
- MCS (Modulating Control System)
- CCS (Coordinated Control System)
- SCS (Sequence Control System)
- FSSS (Furnace Safeguard Supervisory System)
- BMS (Burner Management System)
- ECS (Electrical Control System)
- ETS (Emergency Trip System)
- DEH (Digital Electro-Hydraulic Control)
- BPS (Bypass Control System)
- AGC (Automatic Generation Control)
- MEH (Mechanical Electro-Hydraulic Control)
- SIS (Production Management Systems)

Control Hierarchy

Instrument Level, Plant Level, Equipment Level, Management Level

Operational Capabilities

Process Coverage

Boiler Control • Steam Turbine Control • Electrical Control • Water Network • Coal Network • Ash Network

Control Modes

- Conventional Control
- Advanced Coordination Control
- Plant and Equipment-level Monitoring
- Information Management
- Simulation System Integration