

Power Generation Sector

High availability control system ensures critical cooling water supply to major UK power station



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Overview

When an older adjacent power plant was planned for closure, shared services, such as cooling water, needed to be controlled directly from the remaining gas-fired CCGT plant.

The Brief

The client required a low risk, phased implementation, with as much of the work as possible complete well before the older plant was turned off. The new system was to be the highest possible availability using commercially available, off the shelf (COTS) equipment. Loss of cooling water for more than a few minutes would mean the station having to shutdown.

Scope of Supply

- System Design
- Functional Design Specification
- PLC & SCADA supply and programming
- Control Panel Design & Build
- Control Panel Modifications
- Ethernet Network Design
- System Commissioning
- System Support

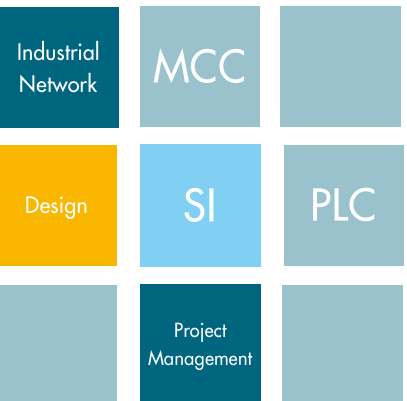
Scope of Services

- Project Management
- Site Survey & Drawing Verification

Key Features

- Siemens S7-400H PLC for increased resilience
- WinCC SCADA system
- Resilient fibre Ethernet with copper back up link
- Integration with existing plant

Low Risk Changeover Philosophy



Value Added by Boulting

- Low risk changeover philosophy
- Whole scope ownership
- Ongoing support
- System designed for future seamless integration to the main station control system