

CRITICAL RAW WATER PUMP STATION ELECTRICAL & CONTROL SYSTEM UPGRADE

"Failure is not an option" - Gene Kranz, Flight Director, Apollo 13

Industry Utilities Sector

Water & Sewerage

Segment

Water Treatment



Project

The client is a water and sewerage utility responsible for managing over \$2bn worth of assets. The client identified that the failure of an asset which pumps water from a local river to the water treatment plant presented a critical risk. If the asset failed, source water would be unavailable for treatment and this could result in supply disruption to customers.

The existing electrical and control systems in the pump station were very old, didn't satisfy the clients safety and functional requirements. The visibility of the raw water pump station at the treatment plant was limited and needed to be improved.

Cromarty Automation were selected to deliver the works.

Solution

Cromarty provided a turnkey solution for the client including:

- Electrical & SCADA Design
- Hardware Supply & Installation
- Engineering, Programming & Commissioning

Detailed deliverables were:

- Design Services preliminary design, Safety in Design workshops, detailed design, design documentation & drawings, detailed functional description for SCADA & PLC requirements.
- Supply & Installation MSB/MCC, ABB VSD's, metering/portable generator connection enclosure, underground services to wet well and the analyser building, mains, internal and external lighting, vermin proofing, floor repairs and a heat pump
- Engineering SCADA & PLC programming & coding, Factory & Site Acceptance Testing



Outcome