



Monitoring System

Case Study

Improved System Monitoring at water treatment works

Background

Automation Software Engineering has enhanced Groupe Schneider's Telemecanique Monitor 77 DOS SCADA system, to provide additional system monitoring, measurement and security measures at South East Water's Holywell Cockaise Water Treatment Works.

South East Water has upgraded its Holywell Cockaise water treatment plant in a £1 million refurbishment project managed by Dynamco and Purac. The project consisted of refurbishing the existing works and clarifiers, included the provision of three new filters, a backwash water holding tank, contact and balance tanks, plus new highlift pumps, chlorination, sulphonation and chemical dosing pumps.

Holywell is equipped with the latest Telemecanique PLC equipment and SCADA system, to provide greater accuracy and more detailed information on the chlorination and movement of water at the East Sussex Works.

Challenge

Telemecanique's Monitor 77 SCADA - a badged version of USDATA's FactoryLink software - didn't go far enough in meeting South East Water's specification for monitoring water levels and stricter security controls.

Solution

ASE were engaged to enhance the Telemecanique Monitor 77 SCADA with additional digital events and password control facilities.

The digital events facility was specified to individually monitor and log to a file each I/O received from the numerous pumps and valves in the plant for a period of 7 days or 1000 events. Any difficulty in monitoring reservoir or tank levels, the operator can now simply scroll back on screen the previously logged digital events and identify the cause of the problem.

ASE programmed a password control feature as a further security measure to allow only authorised or suitably qualified operators to change settings or time values during the course of water treatment.

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Benefits

- Detailed reports on
 - Chlorination
 - Water movement
- No unauthorised systems intervention
- Early problem detection

Project Statistics

- Monitor and log each O/I point
- Strict water monitoring
- 7 day or 1000 event threshold
- Password controlled security measures

Systems Expertise

- Password control
- Telemecanique PLCs
- PLC Software
- Database structures