

Intelligent Motor Control at Lowestoft WwTW



Anglian Water's new Wastewater Treatment works at Lowestoft is benefiting from Blackburn Starling's experience and expertise in providing Intelligent Motor Control Centres.

The £750,000 contract was awarded to Blackburn Starling for the design, manufacture, installation and commissioning of 4 large Motor Control Centres within rooms of limiting sizes, this was achieved by using Intelligent Control on the starters.

Intelligent control relays are used to replace the overload, repeat relays, pushbuttons, lamps and meters, reducing the size and increasing the number of starters per section, thus reducing the overall length of the Motor Control Centre, whilst maintaining all the requirements of BS EN 60439-1:1999.

By using intelligent drives the level of information available to plant operators is not only increased but the response times are greatly improved to avoid un-necessary problems:

- Thermal Overload
- Phase Loss
- Stall (high overload during start)
- Jam (high overload during run)
- Under load
- Current Imbalance (asymmetry)

Warning settings can be used to provide advance notification of impending trips:

- Time to trip on overload allows for corrective action to avoid downtime

All available information is sent down the communication cable to the integral PLC's, from which reports and trends are produced, this enables plant operators to analyse and optimise their operations.

Blackburn Starling offers a range of services, motor control centres and integrated solutions to meet its client requirements across a range of industry sectors in the UK and overseas from its Nottingham manufacturing facility. For further information contact Michelle Raynor tel: +44 (0) 115 986 6331.