



Environment Agency

Sluice Gate Upgrade Greatford

Introduction

The purpose of the CEMA Sluice Gate Control Panel at Greatford is to make the most efficient use of the two sluice gates to maintain a desired upstream river level. The Sluice Gates are controlled via a hardwired control panel utilising a Rotork IQ Actuator to drive each Gate.

The CEMA Control System has been designed to compare a river retention set-point with an upstream level, which is derived from an Ultrasonic Level Controller.

CEMA Scope

Control System Comprising:

- New Control Panel
- New Ultrasonic Level Controller

Electrical Installation Comprising:

- New Site Cabling Installation including Ducting and Traywork
- New Ultrasonic Level Transducer
- NICEIC Testing and Certification
- New Telemetry Outstation

Mechanical Installation:

- New Rotork IQ Actuators
- New Machined Shaft Bushes
- Supply & installation of Powder Coated Key Clamp designed handrailing system

Reference

Quote from J Fowler – MEICA Engineer, Environment Agency, Anglian Region, Lincoln.

“CEMA and the EA have collaborated for 7 Years to Design and Deliver both Sluice Gate Automation and Pump Station Automation Schemes that will allow the integration in time of all EA Sluice Gates and Pump Stations.

Working with the specialist dedicated Environment Agency Team at CEMA Ltd Automation was already enabling us to deliver the Sluice Gate Automation Schemes through an efficient delivery model however our expectations were exceeded when CEMA utilised their in house MEICA Company Warboys Services to deliver the entire scheme including the Mechanical Installation.

The works have been challenging but has resulted in a robust system that is laying the foundations of a centralised intelligent Flood Defence Structure across the Anglian Region”



New & Existing Hand Railing



Kiosk & 2 Gates



Existing Install



New Actuator & Hand Railing



New Control Panel

