

## CASE STUDY: Thames Barrier SCADA

### Project Overview

The Thames Barrier SCADA system, which controls the ten steel gates, was last upgraded between 1994 and 1996. It contains a number of legacy components which need to be replaced to enable the control system to function more efficiently and effectively. Three distinct phases of work have been identified to upgrade the control system in order to optimise the performance of the system with minimum disruption to the Barrier's operation and maintenance activities.

The contract to implement the first phase has been awarded to Adsyst Automation Ltd to upgrade the existing SCADA system and replace the current serial communications network with an optical fibre network. The new high speed communications network will link each of the eleven Local Pier Control Rooms to the existing South Control Room and to the auxiliary Control Room on the north side of the Barrier. Adsyst Automation Ltd will be supplying in excess of twenty industrial workstations throughout the barrier. These will interface with the fifty two Programmable Logic Controllers and multiple control room servers and personal computers for a new control room environment at the north and south bank locations.

The work has already commenced and is planned to be complete by autumn 2011 after a series of gate tests agreed in advance with the Port of London Authority. These gate tests will be used to commission the new equipment

Adsyst Automation Ltd offer a total control system integration service from initial concept to final hand over and commissioning. With more than 22 years experience of complex control system solutions including LV Assembly and Electrical Installation, this project was ideal for Adsyst to act as the Principle Contractor working direct for EA.

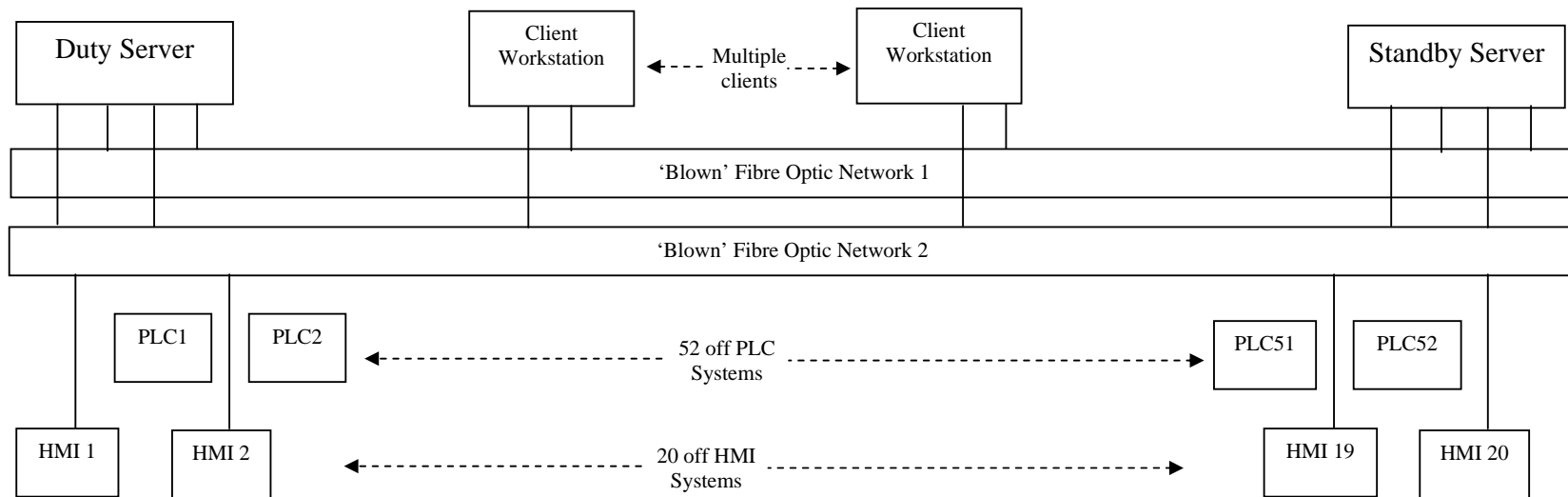
This project utilised our expertise including PLC, SCADA HMI, MES, Data Acquisition, ICA Control Panels, Remote I/O, Copper / fibre Ethernet and Fieldbus networks.



No. GB4311



No. GB11318



No. GB4311



No. GB11318