



Materials Handling

Case Study

Supervision & Alarm Fault Logging - As Seen on TV

Background

When Ocean Technical Glass (OTG), suppliers of finished glass panels for Sony TV screens, commissioned a new control system at their glass works in Cardiff, they requested special attention be paid to a highly sensitive alarm system.

Opened in November 1995, the new processing plant polishes and finishes TV screen glass panels, which are shipped from Japan. Since then OTG, a joint venture between Nippon Electronic Glass (NEG) and Schott Glasswerkes of Germany, have opened a second polishing and finishing line, and are now manufacturing their own glass panels from raw materials.

The Problem

The management of Ocean Technical Glass had identified that any efficiency gains made through the implementation of a new control and automation system could be seriously affected by substantial delays in isolating and remedying a breakdown in the electrical supply - much of which is located underground. Main contractor, Schneider Electric, were commissioned to install a system that could immediately notify production area operators of any electrical supply problem and, perhaps more importantly, pinpoint its precise location.

Solution

Automation Software Engineering (ASE), were specifically brought in to provide supervision and alarm communications fault logging as part of the new control system.

ASE's bespoke software enables operators in two separate control units in the main production area, to monitor the status of electrical supply, transformers, temperature sensors and circuit breakers and pumps in eleven different locations around the site. In the event of an electrical fault, a message will appear instantly on overview screens in each control unit. The system is further backed up with strategically located beacons and hooters, which flash and sound off to provide a high degree of accuracy in finding the cause of an electrical failure

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Benefits

- Product wastage reduced
- Efficient system integration
- Faster repairs
 - Remote monitoring
 - Remote diagnostics

Project Statistics

- Real time status of electrical supply
- Dual fault recovery
- Highly sensitive alarm system

System Characteristics

- Monitor 77 SCADA
- CCX HMI's
- Telemecanique PLC
- Several 100 IO PLC