

CASE STUDY

Automation PLC Upgrades | PLC5 to ControlLogix IO Conversion

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JOB OVERVIEW

Key Features

- ControlLogix PAC Platform
- Wonderware Intouch

Challenges

- Electrical schematics were incomplete or did not exist
- Multiple power sources were fed from unmarked sources
- Some I/O didn't function before the migration; therefore, additional diagnostics were needed
- Hundreds of I/O points needed to be rewired

Impact

- Zero interruptions to current production which kept product moving out the door on schedule
- Critical controls updates which ensured obsolete programming was eliminated
- Allowed for increased productivity and easier access to controls data line

THE EPIC SOLUTION

Production is often essential in manufacturing, and could not be interrupted because our client's product was highly in demand for major general merchandise stores. Stoppages would have been costly and create scheduling issues for subsequent production runs, even though this upgrade was required in the long run to keep systems running.

EPIC successfully upgraded the customer's control system without impacting scheduled production. EPIC's team was "all hands on deck" on the weekends – executing one complete conversion per weekend – for seven consecutive weekends. EPIC rewired and reprogrammed hundreds of I/O points to bring the system up-to-date.



Our team also uncovered and corrected existing programming issues that left the customer with a more reliable solution, eliminating unnecessary legacy code. Finally, EPIC cleaned up the wiring and schematics to make sure that the controls systems would be easy to maintain in the future.