

NEWFIELD AUTOMATION

SPECIALISTS IN INDUSTRIAL CONTROL SYSTEMS

Case Study – Form 4 Distribution Panel for Lhoist UK

Newfield Automation Limited have to date delivered a number of projects for Lhoist UK's Buxton Lime Plant.



As part of Lhoist's continuous upgrade philosophy to ensure reliability of plant, a legacy 1250 Amp, 415 Volt distribution system was highlighted for replacement.

In addition, improved Power Factor Correction was requested to improve efficiency and thus reduce energy costs.

Newfield Automation were approached to provide a turnkey solution.

Due to the access and space constraints, locations and sizes of incoming and outgoing cables, and limited timescales to ensure minimal disruption to plant, a bespoke Form 4 type 2 panel was designed and built which could be lifted into position in sections and pre-assembled next to the existing distribution system.

The Form 4 panel was then installed and commissioned during a 2 day plant outage.

Solution
Partner

SIEMENS

Automation

**Rockwell
Automation**

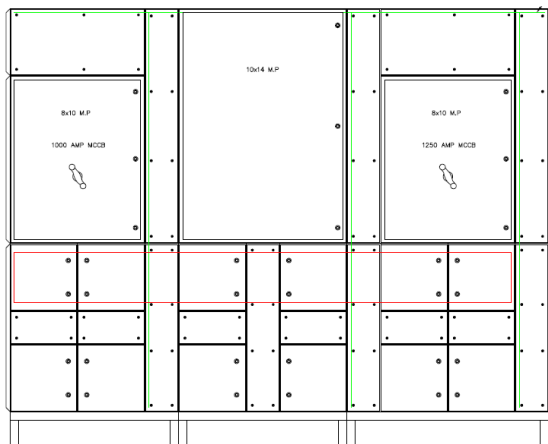
Recognized Systems Integrator





The panel was designed and built in 6 sections at our offices in Congleton and transported to site. Due to the difficult access, final assembly was carried out in the switch room before the existing cables were disconnected, the redundant distribution system removed, and the panel lifted into its final position and connected.

A bespoke Power Factor Correction section was designed and installed to achieve a minimum of .96 of unity at 300kVAR.
The PFC actually achieves a consistent 0.98 of unity.



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