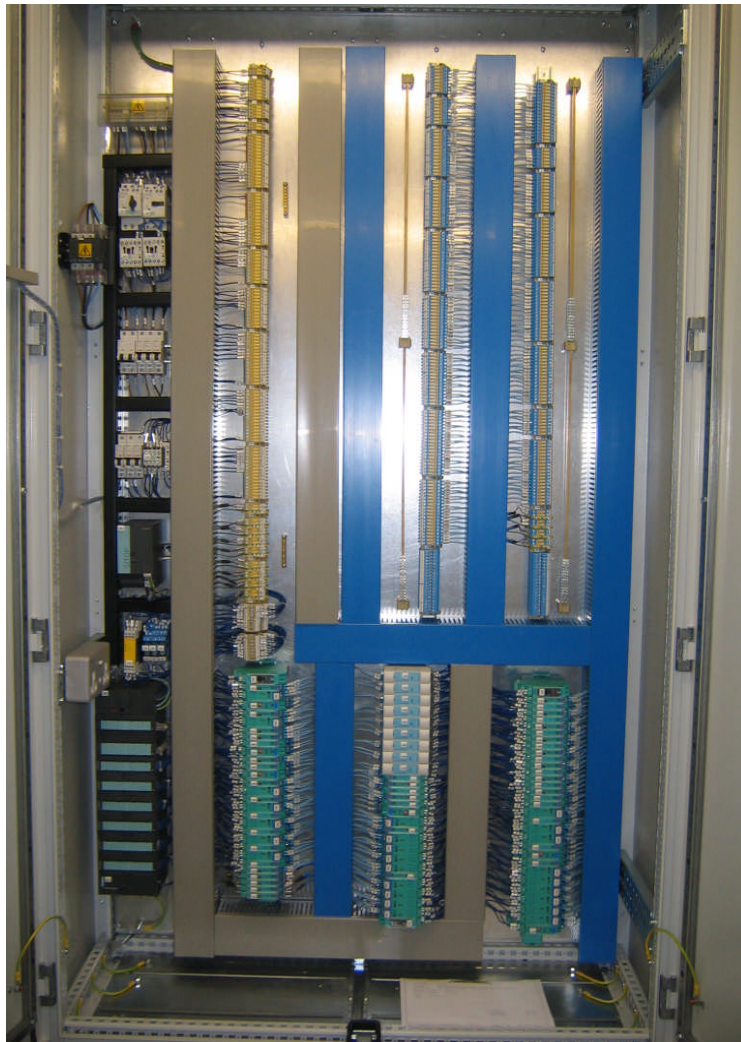


NEWFIELD AUTOMATION

SPECIALISTS IN INDUSTRIAL CONTROL SYSTEMS

Case Study – ATEX Rated PLC Control System Chemical Processing Company in Coventry

Newfield Automation Limited have to date supplied two process control systems for a Chemical Processing Company based in Coventry.

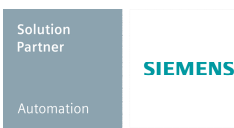


The plant was split into a safe area containing the main control panel and a hazardous Zone 2 area, containing a mimic panel, local control stations, pneumatic control panel and a heating control/indication panel.

Intelligent control was provided by a Siemens S7 PLC utilising standard digital and analogue input and output modules.

Hazardous area devices were connected to the PLC via Pepperl & Fuchs K series barriers using the innovative Power Rail system and Endress and Hauser Nivotesters.

Process Safety to SIL2 was achieved using PILZ safety relays and Pepperl & Fuchs K series barriers.



The system was designed to provide semi-automatic batch process manufacturing.

Heating and cooling of the process was provided via intelligent PID with fail safe control of the steam and cooling water valves.

Hazardous liquid delivery was via a pneumatically controlled pump system, with batch mixing via a Siemens variable speed drive and flame proof motor.



Newfield Automation Ltd supplied a full Functional Design Specification at initiation of the project to ensure the customer's requirements were fully met.

The Design was carried out in conjunction with the main contractor, including provision of cable schedules.

Panel manufacture was carried out at our in house facility, and prior to delivery the system was fully FAT tested to a pre-defined and agreed test regime which ensured commissioning time on-site was kept to a minimum and timescales were achieved.



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