

Chemical Manufacturer Modernizes HPM Equipment using Honeywell Experion PKS with Plant-Wide I/O Replacement Project



INDUSTRIAL DESIGN SOLUTIONS

In 2016, a large chemical company selected control systems integrator Industrial Design Solutions to upgrade the plant's existing HPM equipment with Honeywell Experion C300 controllers.

BACKGROUND

Facing the challenges of an aging Honeywell TDC 3000 control system, a large chemical manufacturing plant decided it was time to upgrade their DCS to Honeywell Experion.

SOLUTION

While systems integrator Industrial Design Solutions designed logic, graphics, and completed the controls integration. Honeywell provided hardware for the upgrade. The plant was able to take advantage of Honeywell's C300 to PMIO capability for some I/O, while incompatible I/O was replaced with Series-C I/O. The analog controls and all supervisory and data-acquisition and historian interface functions were moved to the new Experion platform and C300 controllers. IDS converted over 250 CL programs to powerful sequence (SCM) and recipe (RCM) modules.



- Custom process control logic using SCMs and RCMs, and ASM-compliant graphics using Honeywell's Experion PKS control system platform
- Live system logic documentation in the form of SAMA-style control modules, built directly into the Control Builder environment
- Custom logic development and documentation tools, including PDF logic printing

THE BOTTOM LINE

Modernizing your plant's control system will extend its life, ease troubleshooting, reduce mistakes, and improve reliability.

SOLUTION BENEFITS

- Modern control system interface
- Improved operator response time with ASM-compliant graphics
- Re-use of existing PMIO
- Increased profitability

SOLUTION ROI

- Extended life of control system and improved reliability
- Vastly improved troubleshooting environment
- Reduced mistakes with Experion control system
- Updated batch controls using SCMs and RCMs

SOLUTION PLATFORM

- Honeywell Experion PKS R431 control system with C300 controllers, Series-C I/O and PMIO
- Sequential batch controls with SCMs and RCMs

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Project Duration: 18 months