

Midstream Company Modernizes Fractionation Plant

A major gas processing and transportation company turns to MAVERICK to support a major upgrade initiative.

Objective

The boom in hydraulic fracturing (fracking) is leading a resurgence in the natural gas industry. A major fractionation facility needed to move from the obsolete pneumatic controls installed when the plant was built to a modern distributed control system (DCS). MAVERICK provided state of the art DCS configuration and graphics for the new centralized control room.

Results

MAVERICK provided highly skilled Honeywell Experion system experts to configure automated controls to replace the old system. The new human machine interface (HMI) allows operators to monitor and control plant processes. MAVERICK brought best practices to the plant, allowing seamless control with an intuitive interface.

Solution

The fractionation plant project involved building control strategies from process system narratives and graphics from an HMI framework plan.

MAVERICK provided experts skilled in creating a high performance HMI (HP-HMI) and graphical usability to determine the ideal graphics layout based on the plant configuration and the needs of the operators.

The MAVERICK team configured DCS controls with efficiency and to meet the needs of operations while also utilizing best practices in the industry.

MAVERICK configured supervisory control and data acquisition (SCADA) in Honeywell Experion to interface third-party systems such as BMS, OMNI and other PLCs.

The peer control data interface (PCDI) solution for Honeywell Experion was configured to interface with the Triconex safety system.



MAVERICK's project management and quality processes ensured smooth communications and stakeholder buy-in for technical solutions.

The MAVERICK team staged the Honeywell Experion control system to set up a fully integrated development and test bed.

A comprehensive factory test plan was developed to thoroughly test the system before it was ever connected to plant equipment. This minimized risk and shortened the duration of planned outages and hot cutovers.

Extensive off-site factory testing on the staged system proved invaluable in pre-deployment system validation and operator training.

Through flawless execution and risk mitigation techniques, MAVERICK delivered the system on time and on budget.

The MAVERICK Difference

The customer commented, "The quality, efficiency and adaptability of the MAVERICK team is beyond what we've seen from other companies. Anybody can build an HMI screen, what we like most about MAVERICK is the Value Add. The team would listen to what we wanted, then would suggest a better way."



A Rockwell Automation Company

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