

Midstream Company Brings Product Transportation into the 21st Century

A major pipeline company turns to MAVERICK to create a seamless controls upgrade for operations by providing two platforms for a turnkey solution.

Objective

The pipeline facility needed to move to a state-of-the-art distributed control system (DCS) capable of providing terminal operators multiple user interfaces they were comfortable with. MAVERICK provided a solution that incorporated full control of the facility from both PlantPax® and Foxboro FoxView screens.

Results

Upon completion of the first migration, the two human machine interfaces (HMI) allow operators to monitor and control the system through both platforms. The ability to send start, stop, open and close commands from each system provides the exact control the plant was looking for.

Solution

MAVERICK configured all I/O in both Foxboro and Studio5000 to accomplish full control of the facility.

MAVERICK implemented a two-system phased cutover process to ensure terminal operators had time to train on the new PlantPax system. During the early stages of the cutover, this gave the operators full control from the more familiar FoxView when making critical product movements.

The use of an Allen-Bradley® driver in Foxboro allowed for easy communication from the Foxboro controller to the Allen-Bradley controller via Ethernet/IP.

Identical high-performance graphics were created in both FoxView and FactoryTalk® View to ensure plant-wide dual control.

MAVERICK implemented a historian for the facility with four different scan classes to make sure all important data is logged for supervisory control.



Operators now have state-of-the-art quad monitor stations that use thin clients to host the FTView sessions to provide peak performance and still keep cost down.

MAVERICK developed a fully integrated factory acceptance test (FAT) plan to check all points in Foxboro and PlantPax. The team routinely completed quality checks to ensure the logic was in correspondence with the cause and effect matrices for each unit.

PID and analog controller action lives completely in the Studio5000 logic, but MAVERICK ensured that setpoints and other parameters could be written to from both HMIs.

The MAVERICK team completed extensive on-site communication testing before the actual cutover to test the functionality of the dual control system.

ProSoft cards were used in the Allen-Bradley chassis for third-party communications to Omni flow controllers. MAVERICK set up data mapping to make sure the Foxboro system could also read and write values to this system.

The MAVERICK Difference

MAVERICK has the expert knowledge and skillset to cater to the precise needs at your facility, no matter how complex the problem may be. Trust our expert automation professionals to find the right solution for you.



A Rockwell Automation Company

MAVERICK Technologies, LLC

265 Admiral Trost Drive | Columbia, IL 62236 USA

+1.888.917.9100 | Fax +1.618.281.9191

info@mavtechglobal.com | mavtechglobal.com