

Emerson Provides SCADA Solution and Integration for Control of the Wuhai-Yinchuan Coke Gas Pipeline

RESULTS

- Provided OpenEnterprise™ (OE) SCADA solution
- Systems integration including project engineering and installation
- Assured on-time startup with extensive support services
- Responsible for operations personnel training



APPLICATION

Coke gas pipeline SCADA system

CUSTOMER

China Natural Gas Corporation, Limited (CNGC)

CHALLENGE

The 139-mile (223 km) trunk pipeline is the first long haul coke gas transportation pipeline in China. The project includes three compressor control stations, nine unmanned block valve stations and a single control center. The significant and complex project required seamless integration for the set-up, connection, commissioning and technical training of personnel. The execution relied on an experienced systems supplier and integrator to coordinate all aspects of the project to assure reliable startup and operation.

“Remote Automation Solutions integrated the entire system, incorporating certain third party equipment as well as setting-up, connecting, and adjusting all equipment. The pipeline started up as scheduled and the client has been pleased with its flawless operation to date.”

SOLUTION

The entire pipeline control relies on Emerson's SCADA system, utilizing OE software for data acquisition and monitoring. The three pipeline control stations utilize Emerson's ControlWave™ PAC PLC, while a block valve station uses ControlWave Micro RTU. The RTU and PLC collect and report pipeline pressure, temperature, flow as well as valve monitoring and control. The OE software collects this data at the central control room from the RTU for supervisory control of the field instruments. It is backed by a redundant SCADA server, web server, engineering and operator stations and GPS clock system. Video monitoring is incorporated into the system, with a large screen system and server at the control center and work stations at each subordinate station.

Emerson integrated the entire system, incorporating certain third party equipment as well as setting-up, connecting, and adjusting all equipment. Emerson Remote Automation Solutions supported CNGC's project management center, provided technical training, and offered consulting services throughout the project. The client started up the pipeline as scheduled in September 2012 and has been pleased with its flawless operation to date.

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