

BP Iraq Uses Emerson's Wireless Technology to Reduce Costs and Project Completion Time

RESULTS

- Reduced trenching and field cabling cost by using wireless instruments instead of wired instruments
- Advanced diagnostics and flexible I/O count in the same RTU by using WirelessHART™ Technology
- Quick installation and commissioning of project and early production start



APPLICATION

Onshore Oil & Gas Production in BP Rumaila Iraq

CUSTOMER

British Petroleum (BP) Rumaila, Iraq

CHALLENGE

BP wanted to start production as early as possible. The mechanical completion of the wellhead was done; and the customer was waiting for the instrumentation and the RTU installation before they could start the production.

Their initial design included a wired system that involved trenching, cables and running wires across this site. Installing and commissioning the field instruments, setting the RTU cabinet, finalizing the I/O count and its marshalling inside the cabinet – were taking an extensive amount of time to complete and delaying the start of their production.

“We could start production within three months’ time once we decided to go for Emerson’s wireless solution.”

BP Rumaila

SOLUTION

The Emerson services/support team took the responsibility of the existing installed base and proposed a smooth and easy upgrade with the ControlWave™ PAC RTU. It offers rugged, long-term reliability, wide temperature operation from –40°C to +70°C for remote sites, and very low power consumption for solar applications. Additionally, the ControlWave PAC has been designed to meet CE and U.L. Class I, Div. 2 hazardous location requirements.

Emerson kept the cabinet and the field wiring intact while making a new RTU – including I/O racks on pre-wired back plates, which was tested in a staging facility before moving to the actual site. Once completed, Emerson removed the old RTU chassis and installed a new RTU on the spot to make a plug and play process. All the documents and records were updated to reflect the new hardware and software design.

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