Emerson selected as automation project manager for implementation of FOUNDATION fieldbus technology in China

Decision by CNOOC for LüDa oil field project based on proven Emerson success in past projects

Emerson Process Management has been awarded a contract by China National Offshore Oil Corporation (CNOOC) China Ltd to implement FOUNDATION™ fieldbus technology in the automation of the LüDa oil fields at Bohai Bay, 150 miles east of Beijing. FOUNDATION fieldbus communications is one of the key technologies that powers the proven Emerson PlantWeb® digital plant architecture.

Emerson Process Management will provide the engineering, system integration and project management on automation throughout the offshore complex, with support services from Emerson Process Management China. The PlantWeb architecture will use the FOUNDATION fieldbus communications to network over 300 Emerson intelligent field devices with the DeltaV™ digital automation system and AMS™ Suite: Intelligent Device Manager software.

While the fieldbus solution was selected to minimise offshore wiring and installation time, further benefits will arise in the day-to-day operation of the platform. Fieldbus technology will enable CNOOC to realise the benefits of microprocessor-based smart instruments that continuously supply diagnostic information about the health of the field instruments, as well as the process,

FOUNDATION fieldbus technology will enable delivery of diagnostic information from each Emerson field instrument, and the diagnostics and guidance from PlantWeb will help increase productivity by increasing the use of predictive maintenance. For example, with valve diagnostics, LüDa oil fields personnel will be able to check the valve while it is still in service to determine if wear, stiction, or other conditions call for maintenance during the next shutdown. Knowing the nature of the problem allows site personnel to plan their work more efficiently.
"We are delighted by the CNOOC decision to use fieldbus on this project, as the technology is gaining momentum all over the world and especially in China," said Michael H. Train, president of Emerson Process Management Asia Pacific. "Emerson has installed over 2000 fieldbus projects globally, and more than 100,000 FOUNDATION fieldbus compliant field instruments. Users have realised significant project savings and repeated day-to-day operational savings by using this state-of-the-art technology."

Intelligent field devices to be used on the project include Fisher® control valves with FIELDVUE® digital valve controllers, Rosemount® pressure and temperature transmitters, and Micro Motion® Coriolis flowmeters. The DeltaV system includes 14 workstations. The order also includes redundant Modbus links to various critical subsystems such as ESD (Emergency Shutdown) and F&G (Fire and Gas) systems, and to the Daniel® custody transfer flow metering equipment.

Oil production is expected to commence in March of 2005.

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Notes to the Editor:

About Emerson Process Management

Emerson Process Management (www.emersonprocess.com), an Emerson business, is a leader in helping businesses automate their production, processing, and distribution in the chemical, oil and gas, refining, pulp and paper, power, food and beverage, pharmaceutical, and other industries. The company combines superior products and technology with industry-specific engineering, consulting, project management, and maintenance services. Emerson brands include PlantWeb®, Fisher®, Micro Motion®, Rosemount®, Daniel®, DeltaV™; Ovation®, and AMS™ Suite.

About Emerson

Emerson (www.gotoemerson.com) is a global leader in bringing technology and engineering together to provide innovative solutions to customers in process control; electronics and telecommunications; industrial automation; heating, ventilating, and air conditioning; and appliance and tools. Sales in fiscal 2004 were $15.6 billion.

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