

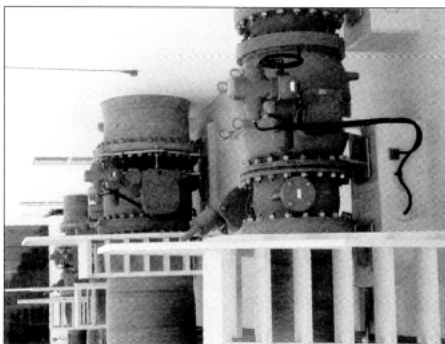


AUMA in UAE

AUMA has been selected to supply all electric actuators and gear operators for the newly built Al Mushrif pump station constructed to supply drinking water to a new residence area in Dubai, United Arab Emirates.

The latest AUMA application takes the company's U.A.E. installed base to over 6,000 electric actuators. The project also represents the first Modbus electric actuator installation in Dubai. Dubai Electricity and Water (DEWA), the final client for the project, listed premium product quality, modular solution flexibility and local U.A.E. support as key reasons for AUMA's exclusive supplier selection.

Following a specification change by DEWA to open field bus protocol, preferably using Modbus or Profibus, AUMA was identified as a supplier that could provide both protocols as part of a modular package. Additionally, due to the use of open field bus solutions, system integrators or contractors can freely select the required protocol without incurring additional cost.

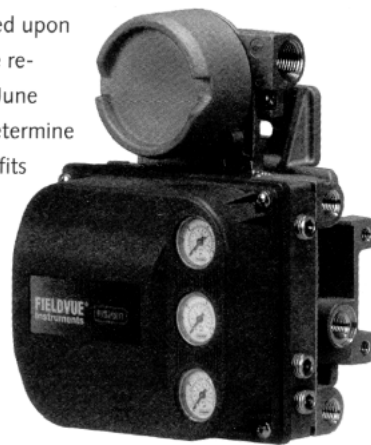


AUMA actuators and gear operators supplied to the newly built Al Mushrif pump station in Dubai.

Long-distance monitoring

Emerson Process Management and Bjorge Solberg & Andersen, the Norwegian agent for Emerson, have established a control valve diagnostic centre using asset optimisation services, to monitor control valve performance on the Norsk Hydro, Oseberg platform. The Fisher® FIELDVUE® -instrumented valves will be monitored by AMS-ValveLink® performance diagnostic software. Service includes the remote monitoring of control valve performance indicators and status alarms to predict when maintenance may be required. Emerson, Solberg and Norsk Hydro together defined procedures that would guarantee the safety of personnel and assets at the offshore installation. The diagnostics centre was established to meet these requirements. The project was established as a trial in June 2002. It is the first offshore project of this type to be undertaken

by Emerson. At the outset of the contract, Emerson and Solberg worked with Norsk Hydro to identify the valves to be monitored, as well as establishing a control group against which the monitored valves could be compared. Success factors were agreed upon and will be reviewed in June 2003 to determine what benefits control valve performance monitoring provides.



Power supplies fit for Fieldbus

MTL's 9122-IS and 9121-IS Fisco power supplies have passed rigorous testing by Emerson Process Management for integration into the DeltaV digital automation system that is part of the PlantWeb architecture. The Emerson tests ensure that MTL fieldbus products fully support PlantWeb functionality. The new Fisco standard for IS field wiring permits more field devices to be used with long cable lengths, reducing the safety documentation to a list of devices and completely eliminates the need to calculate cable parameters. Model 9121-IS can provide 110mA of output current, typically supporting

more than five field devices in Group IIC, while the 9122-IS can provide up to 250mA to support more than 12 field devices in Group IIB. Each Fisco power supply repeats the Fieldbus signal, ensuring no degradation of signal from the host side to the IS side and enabling the power supplies to be multi-dropped. Powering the DeltaV H1 interfaces is accommodated using a switchable option for host side power. Both models are certified to Cenelec and FM standards based upon the Fieldbus Foundation FF816-Fisco physical layer profile and the IEC/TS60079-27 technical specification.

Schlumberger at record depth

Schlumberger Oilfield Services has announced that three surface-controlled subsurface safety valves have been successfully set below 10,000ft in Mississippi Canyon Block 522 in the Gulf of Mexico. The Schlumberger TRC-DH valves have been set at record depths in three wells in the Fourier Field, one of five Na Kika development fields. The recent valve setting depths represent another Schlumberger record, this time occurring three times in succession. In the Shell/BP Na Kika Project, Fourier Field wells F-2, F-3 and F-4 have TRC-DH safety valves

set at 10,057.42ft, 10,046.95ft and 10,060.40ft, respectively. Schlumberger also set the previous depth records at 9882ft at Camden Hills and 8394ft at Shell's Mensa sub-sea development. The Fourier wells are in water depths of approximately 7000ft. The Fourier Field well F-3 was the first in the world to have a SCSSV installed deeper than 10,000ft, followed closely by two more installations exceeding this depth. The Na Kika development, owned by Shell and BP, is located 140 miles SW of New Orleans.