DeltaV™ System, FOUNDATION Fieldbus Technology Delivers Results for TotalFinaElf in North Sea Offshore Platform

RESULTS

- 15% reduced wiring and instrumentation cost
- 20% reduced control system cost
- 80% reduced engineering costs
- Reduced building costs
- Reduced operational cost

We made positive savings, so it is definitely worth doing. What you must remember is that field buses are not difficult, they are just different."

Sikko De Jong
Manager, Electrical, Instrumentation and DCS,Engineering and Construction, TotalFinaElf E&P Netherlands

APPLICATION

Off shore oil drilling platform

CUSTOMER

TotalFinaElf E&P Netherlands (TFEEPN)

CHALLENGE

TFEEPN sought a technology solution to meet offshore platform functionality requirements including fast cycle times, powering over the network, and use existing wiring if necessary.

SOLUTION

Following a successful trial on an onshore plant, TotalFinaElf E&P Netherlands (TFEEPN) installed Emerson Process Management's DeltaV™ digital automation system, using FOUNDATION fieldbus digital communications technology in its new K1A offshore gas production platform, located in the Dutch sector of the North Sea.

Says Sikko De Jong, TFEEPN's electrical, instrumentation and DCS head for engineering and construction, "We were keen to adopt fieldbus technologies on several planned offshore projects. After research of fieldbus and automation system technologies, and a successful field trial, FOUNDATION fieldbus technology was selected since it met the desired functionality requirements, supports fast cycle times, is powered over the network, and can use existing wiring if necessary. Emerson Process Management was chosen for the automation system because Emerson's PlantWeb™ digital plant architecture comprises the latest technology of host system powered by intelligent field instruments. Further, Emerson understands maintenance and has built this into its PlantWeb architecture, and Emerson is the automation supplier most actively involved with FOUNDATION fieldbus."

DELTAV™

For more information:
www.EmersonProcess.com/DeltaV

EMERSON™
Process Management

The PlantWeb installation on the K1A platform consists of a DeltaV system networked with 90 FOUNDATION fieldbus-based instruments, including Rosemount pressure, temperature, and flow transmitters. AMS predictive maintenance software is also a key component of the PlantWeb architecture. AMS works on the network and with the intelligent field devices to provide status and diagnostic information about the field devices as well as about the process. This predictive information can inform a reliability-centered maintenance strategy, driving toward greater plant availability, reduced maintenance costs, including a reduction in high-cost offshore logistics, as well as ensuring high automation performance.

When asked what advice he would give to others embarking on a FOUNDATION fieldbus project, Sikko De Jong said, "We made positive savings, so it is definitely worth doing. What you must remember is that field buses are not difficult, they are just different. You must prepare the process thoroughly beforehand, increasing people's knowledge and skills as well as modifying engineering procedures and practices to suit the new technology."

TFEEPN continues to expand its application of the proven technology. The company completed the automation of its K5PK compressor platform, using the PlantWeb architecture with the DeltaV system and 110 Emerson FOUNDATION fieldbus-based instruments. A subsequent planned platform will also use the PlantWeb architecture.

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Emerson Process Management
12301 Research Blvd.
Research Park Plaza, Building III
Austin, TX 78759

www.EmersonProcess.com/DeltaV

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