



## Complete control and safety system for Statoil Sleipner platform



*Norwegian state-owned Statoil is one of the largest net sellers of crude oil in the world, and a significant supplier of natural gas to continental Europe. In 1997, Statoil had a turn-over of 125 Billion NOK (Approx. \$ 15 Billion), and employed about 17,000 people.*

### Sleipner East and West

Sleipner East rests on a concrete gravity base structure. The total field is estimated to have a reserve of 174 billion cubic metres of gas and 388 million cubic metres of condensate.

The condensate produced at Sleipner is transported through a pipeline to Kårstø north of Stavanger in Norway. The gas from Sleipner East is piped to Emden in Germany and Zeebrugge in Belgium. The unitization of Sleipner East and West was carried out in 1994, allowing the two to be developed in coordination.

Sleipner East came on stream in October 1993, and Sleipner West in August 1996.

### Project Information:

The Sleipner field, containing 3 platforms, was fitted with a complete control system from ABB Industri AS, including DCS, HVAC, Subsea control, choke control, compressor control, utility process system and wellhead control systems. Fitted in integration with the DCS was a safety system including a process shutdown system, emergency shutdown system, fire & gas protection, event recording and fire & gas instruments.



Client: Statoil  
Site: Sleipner East and West.  
Gas and condensate production, treatment,  
storage and pipeline.  
Country: Norway - West coast



Scope of work:

- Distributed Control System
- Sequence Control
- HVAC
- Subsea Control
- Choke Control
- Compressor Control
- Utility Process Systems
- Turbo Expander control w. anti-surge and Performance Control
- CO<sup>2</sup> gas injection
- Wellhead Control Systems
- Wellhead Shutdown System
- Power Distribution Supervisory System
- Process Shutdown
- Emergency Shutdown
- Fire & Gas protection
- Event Recording
- Fire & Gas Instruments
- Information Management System

Product details:

- 25500 I/O
- 90 Process Controller (Master Piece 200/1)
- 2 Process Controller redundant CPU (Advant Controller 450)
- 23 Operator Station (Master View 850/1, Advant Station 500)
- 2 Gateway (Master Gate 230)
- 15 Control Network, (Masterbus 300)
- 2 Information Management  
(Advant Station 520, Advant Station 515, Superview)
- 3 Engineering Station (Advant Station 135)
- 14 Safety Controller (Master Safeguard 3000)

project profile



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