The Sture crude oil terminal
The Sture terminal on the coast of Norway processes, stores and distributes a large proportion of the crude oil moving out of the country. In the late 1980’s, ABB supplied all the automation equipment at the terminal. In the late 1990’s, ABB was awarded a contract to upgrade the automation and safety systems at the facility.

Automation and Safety from ABB
The Sture terminal was originally commissioned in December 1988. A pipeline brings some 700,000 bbl/day of crude oil into the facility from the Oseberg A and C, Brage, Frigg and Veslefrikk fields in the North sea. Condensate is delivered from the nearby Kollsnes gas treatment plant.

Project information
The automation and safety equipment delivered to Sture includes several Advant 520 Operator Stations, an Advant Safeguard 415 for ESD, a fire and gas system based on AC410, as well as process control and emergency shutdown functionality supplied by AC450 and AC410 controllers. The equipment also includes a data acquisition system, compressor control, and an information management system.
Client:  Norsk Hydro ASA, Raytheon Engineers & Constructors
Site:  Sture Crude Oil Terminal
Country:  Norway, West Coast

Scope of supply:
- Distributed Control System
- Process Control
- Sequence Control
- Data Acquisition System
- HVAC
- Gas/Condensate separation and exports
- Compressor control w/ anti-surge and performance control
- Utility process systems
- Information management system
- Terminal automation system
- Safety system
- Tank and cavern gauging

Product details:
11  MP280/1
4  AC450 PCS
2  AC410/450 PSD
12  AC400
1  AC70
2  AS5301 MS
5  AS5200 S
3  OS X-terminal
2  AS1300 E
1  Advant Safeguard 400
8  Loading arms

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