

Project Name:	Snøhvit LNG Project	Delivery Year:	2005-2006
Project Location:	Melkøya island near Hammerfest, Norway	Start-up Year:	2007
Operator:	Statoil ASA, Stavanger, Norway, www.statoil.com		
Contractor:	Linde AG (Engineering Division), Munich, Germany, www.linde.com		
Scope of Supply:	More than 130 off Magnetic Level Gauge made of SS 316L and super SS type 6Mo, 21 off Glass Level Gauge made of SS 316L and super SS type 6Mo, and 6 off Magnetic Level transmitter made of SS 316Ti for high pressure applications		



Project Description

The Snøhvit project is:

- The Europe's first export facility for liquefied natural gas (LNG)
- The production and landing of natural gas from the Snøhvit, Albatross and Askeladd fields in the Barents Sea
- A receiving and processing plant on Melkøya island outside Hammerfest in northern Norway
- LNG shipments by special carrier to markets in Europe and the USA.

Further information can be found at www.statoil.com/snohvit

Particular Application

Slug Catcher

The arriving well stream from the Snøhvit field passes first into the slug catcher, designed to cope with possible slugs of water which may have formed in the line. This ensures a steady flow into the process plant. Initial separation of the natural gas, NGLs, condensate and water/MEG mix also takes place here.

In order to measure both the condensate level and the water/MEG mix level, KSR KUEBLER, in collaboration with Linde, designed some special units:

- 4 magnetic level gauges with multiple connections in order to optimize the exchange of the different fluids between the gauge chamber and the slug catcher (see drawings nos. 1015-9566 & 1015-9567 in annexure)

- 6 top mounted magnetic level transmitters which include a "crown float" made of 3 identical floats for superior floatability at high process pressure (see drawing no. 1001-5895 in annexure). These level transmitters also have two interchangeable sensors in case one of them would encounter problems.

The units intended to measure the interface level between the condensate and the water/MEG mix, have ballasted floats calibrated according to the fluid densities. All these units are designed for a max. operating pressure of 130 bar.



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