Welcome to the seminar hosted by Oljeindustriens Landsforening (Olf) and the Norwegian Petroleum Safety Authority

Odd Hagerup PSA
David Llewelyn Olf

3rd November 2011
The Norwegian HSE model
Cooperation between industry, authorities and unions

The tripartite model

Authorities

Employers

Unions

Employers representative

- OLF represents our members, incl. 46 oil companies and 56 suppliers, in tripartite arenas.

OLF’s members interests

- OLF focus on member companies needs and expectations eg
  - Framework conditions
  - Environmental issues
  - Safety performance
  - Lifeboats

Tripartite arenas

- Safety Forum
- Regulatory forum
- Statutory skills for the NCS - RVK
- Working Together for Safety (SfS)
- Standardisation - petroleum sector board
Why are we worried about Subsea leaks?

- More wells
- More production
- More Complexity
- And they are getting older all the time

= More leak points
What we want to avoid!

Shell fights North Sea oil spill

By Rob Davies: Last updated at 10:59 PM on 16th August 2011

Shell is facing a burgeoning image crisis as its North Sea oil spill – the biggest in British waters for a decade – stretched into its seventh day.

The Anglo-Dutch giant has been using teams of divers and Remote Operated Vehicles (ROVs) to battle the leak, which is estimated to have slowed from five barrels a day to two.

But initial work on the sub-sea pipeline below the Gannet Alpha platform succeeded only in plugging one part of the damaged pipe, forcing oil out elsewhere.

The company estimates that some 1,300 barrels of oil have been spilt so far.
Objectives:
- To communicate the approach being taken by regulators to improve environmental practices subsea
- To share information and experience with developments in continuous Subsea Leak detection, their potential and limitations
- To identify relevant organizational and technical gaps and outline actions that take the industry forwards
Subsea leak Detection Seminar
- Agenda

9.30  Welcome; Odd Hagerup PSA & David Llewelyn OLF
   Why do we need permanent leak detection systems and how do they fit into the overall
   environmental strategy for a development?

9.40  Regulation of remote monitoring in Offshore Installations (Kristin Eine, Klif)

9.45  How do regulators address Subsea Leak detection (Odd Hagerup, PSA)

10.00 Goliat strategy for environmental monitoring during operation(Erik Bjørnbom, Eni)

10.20 Key points from DNV-RP-F-302 and example of implementation in leak detection
     planning (Kristin Nergaard Berg, DNV)

10.40 Gulf of Mexico - Acoustic Leak Detection System (Paul Zutz, BP GOM team)

11.00 Coffee

Current experience - Case histories of leak detection implementation

11.20 Experience with acoustic leak detection - Vega (Thorleif Andresen), and Experience
     with acoustic condition monitoring - Tordis IOR (Trond Bertmand) Statoil

11.50 ALVD Leak detection experience on Ormen Lange (Sigbjørn Birkeland, Shell)

12.10 Lunch
Subsea leak Detection Seminar
- Agenda 2

Future `state of the art` and products available
13.00  Franatech - Michel Masson
13.15  Reson - Simon Barchard
13.30  Phaze  - Jan Erik Strøm
13.45  Bjørge Naxys - Jens Abrahamsen
14.00  Aquadyne,  (tbc)
14.15  Biota Guard AS  - Eirik Sønne&land (CEO)
14.30  Tea Break

Integration and System design
14.50  Goliat Project, SSLD system design (Elling Røsby, Goliat Engineering AKSO)
15.10  Testing of Leak detection systems (Dr Truls M.Larsen  FMC)
15.30  Way forward  - Summary of key issues raised  (DL)
15.50  Closing Remarks,  Martin Dove,  (BP on behalf of the OLF SS Network)
16.00  Close