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Bridges, flares and tripods
Platform removals

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Ekofisk I Cessation Project

P&A 5 PLATFORMS
1998 - 2005
Completed 1Q 2005

TANK CLEANING
2003 - 2008
H₂S and 2/3 oil/wax volume removed
Offshore restart June 2008

TANK TOPSIDE REMOVAL
2005 – 2007
Completed May 2007
Approx. 24,500 tons removed

TANK FINAL
CONFIGURATION 2008
Studies ongoing

REMOVE 9 PLATFORMS
2006 - 2013
Bridges, flares, tripods
~85% completed
Bid process ongoing

5 OPERATING PLATFORMS
~ 2015
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Personal Safety Commitment

I believe that zero incidents is achievable through hard work and the right mindset. A specific HSE culture program focusing on behaviour to support zero accidents and incidents is developed for the Cessation Project together with SINTEF.

SAFETY
We complete all Cessation activities without serious personnel injuries.
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**Motivation**
- Safe & efficient execution of our operations
- Planning and organising
- Information and communication
- Openness/honesty/confidence
- Community/involvement/teamwork
- Knowledge and understanding
- Training, knowledge sharing og experience transfer
- Requirements and procedures, SJA, PSI
- Housekeeping
- Roles and Responsibilities
- Management attitudes
- Meetings
- Requirements for safety equipment and personal protective equipment

**Safe & efficient execution of our operations**

**ConocoPhillips**

**Smartere Sammen II+**
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Tank Topsides Removal

Approx 24,500 tons removed in May 2007, and 98% recycled in Nov. 2007
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Crane statistics

No of lifts with 2 barrier cranes and crawler crane, from July 2005 until May 2007: (Max weight 23 tons)

West + East Barrier cranes:
To and from vessel: 5540
Platform internal lifts: 9874
Crawler crane, internal only: 3958

Total number of lifts 19372
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Material Movement & Waste Accounting

Total Material Output:
- Metals 21331 Tonnes
- Non-metals 154 Tonnes
- Sold components 744 Tonnes
- WEEE 200 Tonnes
- Hazardous waste 1837 Tonnes
- General waste 553 Tonnes
Sum 24820 Tonnes

- Degree of recycling target 96 %, actual 98%
Ekofisk I Cessation Project
So what have we learnt....

- Important to set Qualifications for de-construction personnel
- Focus on training
- Establish barriers to protect people and environment
- Pro actively “think ahead” and be prepared
- Extensive SJAs
- Learn from hazardous observations and incidents
- Short feedback cycle
- Good working relations with Operations
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Safe execution - Training

30 courses established covering key topics – training is a significant contributor in ensuring safe execution of projects

- Safety courses for offshore work
- Introduction to procedures and HSE
- Stropping and rigging
- Access techniques
- Hot work and work permits
- Safety Job Analyses (SJA) training
- Handling of various hazardous materials
- Waste handling
- ADR/IMDG (transportation of hazardous materials at sea)
- Prevention and protection of oil spill
- Radiation protection

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Learning from accidents, incidents and hazardous observations reports

- ECP Project management has a high focus on the use of hazardous observations reporting (reported in Synergi)
- Approximately 1500 hazardous observations reports submitted in the Tank Topsides removal project
- All reports reviewed in:
  - Morning meetings offshore (workforce)
  - Daily video meeting with management onshore
  - Safety meetings onshore (workforce)
  - by management in weekly meetings
- Actions taken promptly and follow up reported back to workforce
- The reports gave a significant contribution to completing the project in a safe manner and gave valuable experience that we can bring forward in the coming projects.
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Sweat the small stuff

Major incidents very often have small beginnings, that is why it is so important to look at every injury and incident, however small, as having important learning potential.
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2/4 Tank Substructure - What was different from expected?

- Volume of oil/wax about 3 times more
- Consistency of oil/wax, more stiff wax
- The more fluid oil did not easily flow between cells
- Settling time for oil longer than normal Ekofisk crude
- Much more debris than expected
- Extensive erosion and corrosion of equipment
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2/4 Tank Cleaning Skimmer Tools

• Skimmer principles worked, the rotating drum can chew the stiff wax
• Manoeuvring hampered by stiff umbilical, the thrusters made the oil and water to an emulsion
• Installation into cell difficult
• Debris caused severe problems
• Leakage, loss of buoyancy

• Conclusion: The hi-wax skimmer principle can do the job, however, redesign and new tool are required.
Rigid pump testing carried out:

• 60 hours of running in up to 1% sand - 99 % oil mix, grain < 1mm.

• To withstand digestion of debris like gloves, hard plastic, rope, etc.

• Two pump types failed already during the sand test.
• Third pump type made it.
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2/4 Tank Cleaning Skimmer Tools

Consists of the following main elements:

- Main Buoyancy
- Skimmer Drum
- Pump Unit
- Secondary Buoyancy
- Thrusters - tiltable
- Control Box
- Swivel / Water Lubrication
- Umbilical
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2/4 Tank Cleaning Skimmer Tools Testing Program

- Parts tests February-March
  - Pump, umbilical, thrusters, etc. shall be individually tested
- FAT test May
  - Shall be performed at quayside at Framo
- Integration test May-June
  - Shall be performed on a boat at min 20m depth
  - Testing marine behavior
  - Maneuverability of the tool in a simulated cell
- Skimming test July
  - Shall be performed in a pit at AKERSTORD
  - Test and train operators to use the equipment
  - Simulate the lowering through access shafts
- Operations Sept - Nov
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Removal of Bridges, Flares and Tripods

• Outlying (Edda, Cod, Albuskjell) Flares, Bridges and Tripods and everything north of 2/4R successfully removed in summer 2006 and 2007
  – 85% of scope is complete
  – Remaining 15% are lifts at the Complex, scheduled in 2009
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FOR PERMISSION TO PUBLISH THE DATA PRESENTED