



























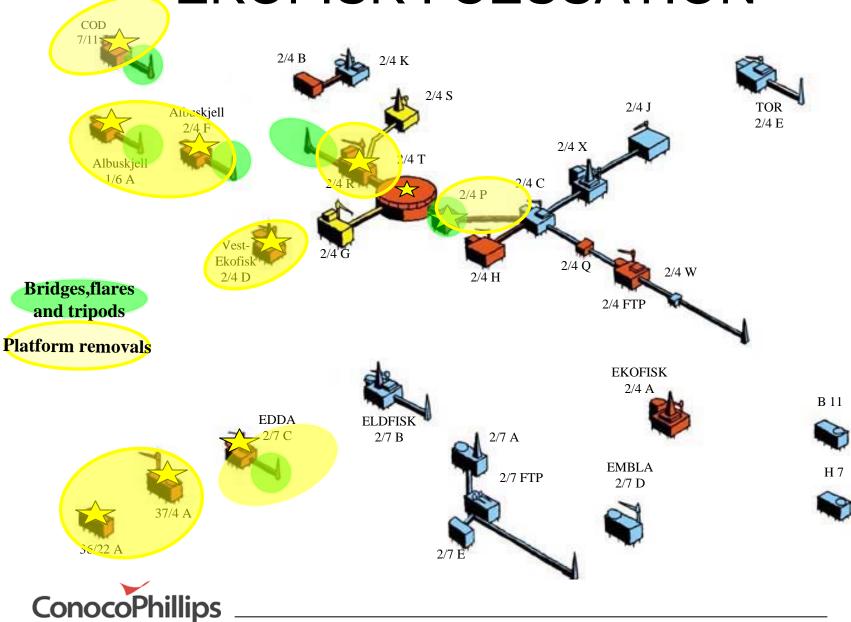




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Ekofisk I Cessation Project

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 500tons removed

TANK FINAL CONFIGURATION 2008 →

Studies ongoing

REMOVE 9 PLATFORMS 2006 - 2013

Bridges, flares, tripods

~85% completed

Bid process ongoing

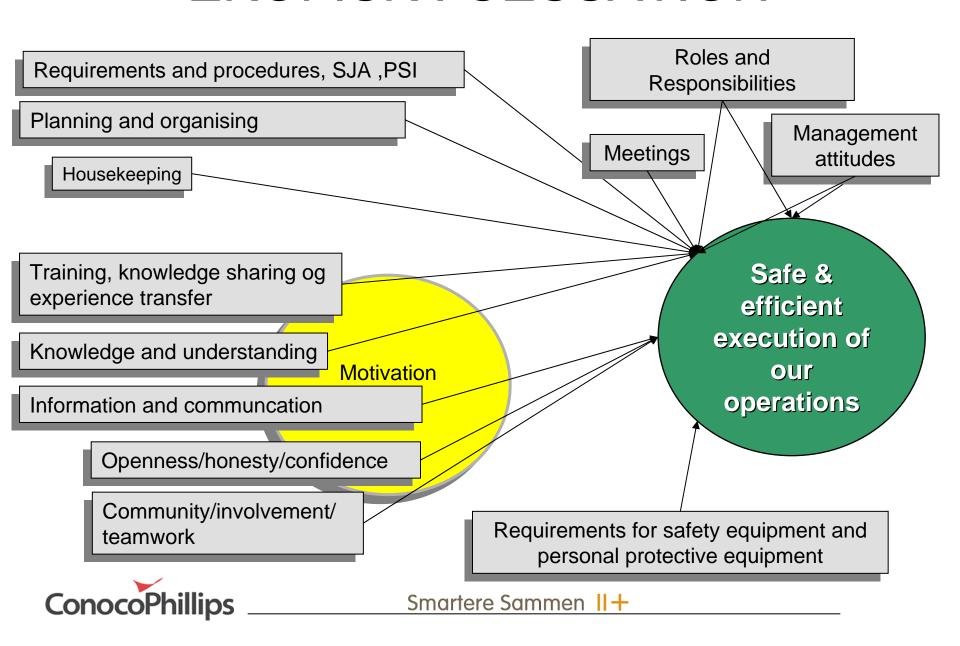
5 OPERATING PLATFORMS
~ 2015 →

Personal Safety Commitment

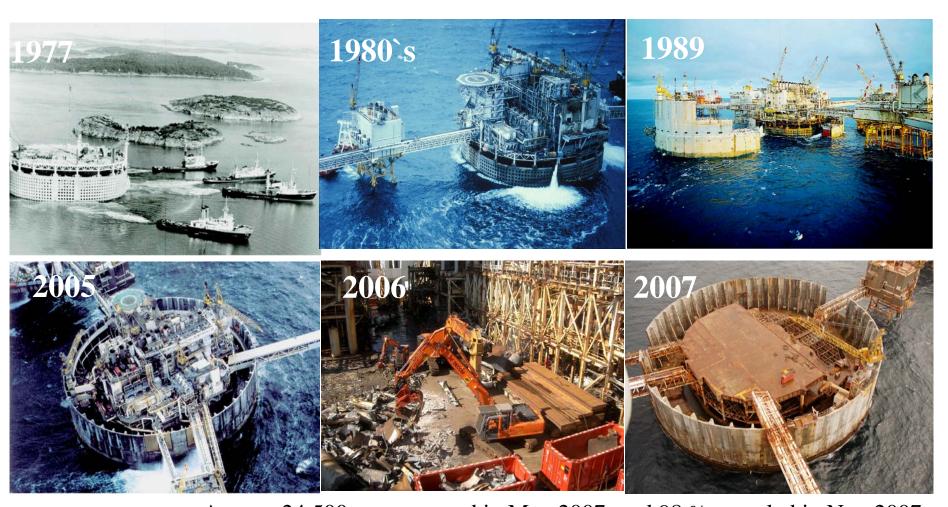
I believe that zero incidents is achievable through hard work and the right mindset. A specific HSE culture program focusing on behaviour to support zero accidents and incidents is developed for the Cessation Project together with SINTEF

SAFETY
We complete all
Cessation activities
without serious
personnel injuries.





Tank Topsides Removal



Approx 24 500tons removed in May 2007, and 98 % recycled in Nov.2007 ConocoPhillips _____

Ekofisk I Cessation Project

Crane statistics

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

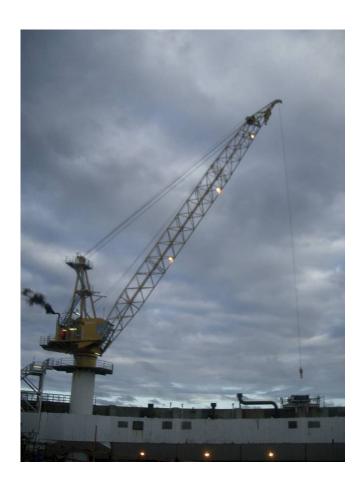
West + East Barrier cranes:

To and from vessel: 5540

Platform internal lifts: 9874

<u>Crawler crane</u>, internal only: 3958

Total number of lifts 19372





Ekofisk I Cessation Project

Material Movement & Waste Accounting

Total Material Output:

•	Metals	21331	Tonnes
	11101010	— 1 0 0 1	

Non-metals 154 Tonnes

Sold components 744 Tonnes

WEEE 200 Tonnes

Hazardous waste 1837 Tonnes

• General waste <u>553 Tonnes</u>

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 hazardious observations and incidents
- Short feedback cycle
- Good working relations with Operations



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





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.









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



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:

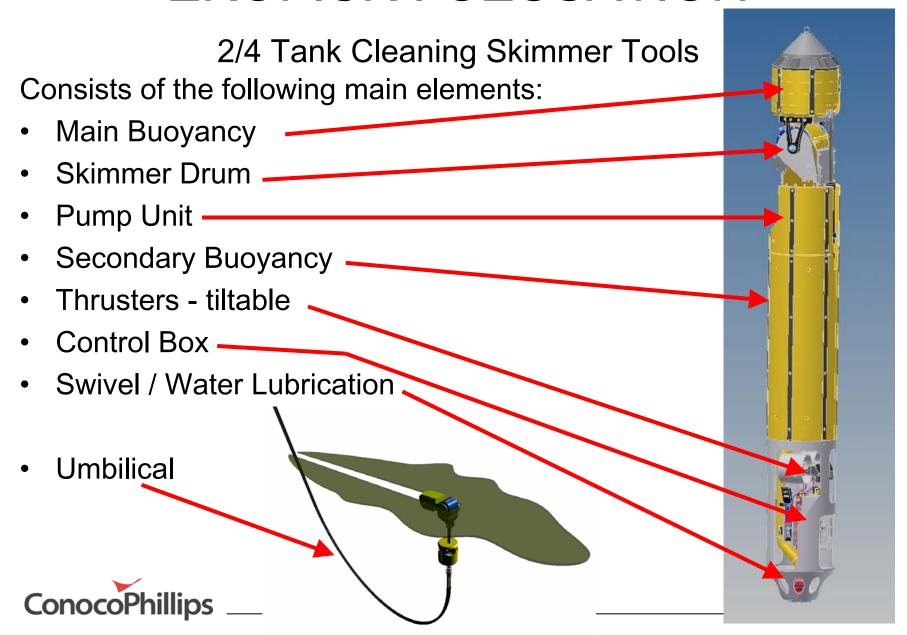
- •60 hours of running in up to 1% sand 99 % oil mix, grain < 1mm.
- •To withstand digestion of debris like gloves, hard plastic, rope, etc.





- •Two pump types failed already during the sand test.
- •Third pump type made it.

ConocoPhillips



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
 - ➤ 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

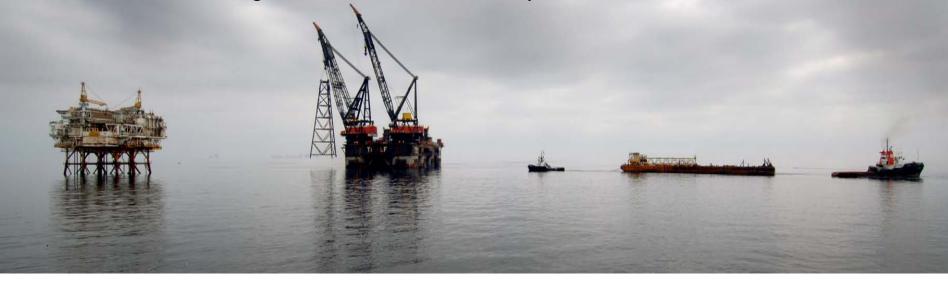






Removal of Bridges, Flares and Tripods

- 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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- ➤ A/S NORSKE SHELL

FOR PERMISSION TO PUBLISH THE DATA PRESENTED

