Lessons Learned from Failures

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Wood Group Mustang
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Introduction
$1MM Fine

Unauthorized discharges of oil and chemicals from platform.

“Unlawful discharges of oil and a piping configuration that routed an unpermitted chemical dispersant into the facility’s wastewater discharge pipe to mask excess oil being discharged into the ocean.”

Oct 16, 2014
Safety

“The latest figures from the association of oil and gas producers (OGP) reveal that there were 88 fatalities in the industry across the world in 2012…”

-David Doig
-Group Chief Executive of OPITO
Agenda

• Review Series of Accidents
• Summarize Lessons Learned
• Questions
• Macondo Investigation video
6 - Wood Group Mustang
Alexander Kielland Semi-Sub

March 27, 1980
Semi-submersible Accommodations vessel
At Ekofisk field
212 on board, 123 perished, 89 survivors
13 - Wood Group Mustang
Usumacinta
Platform Installation
Ixtoc
Piper Alpha
Lessons Learned

1. Prevention
   - Identify hazards and assess risks
   - Primary Barriers
   - Secondary Barriers

2. Early Warning
   - Monitoring, early detection and interpretation

3. Mitigation
   - Protect vulnerable areas such as control rooms
   - Prevent escalation
Lessons Learned

4. Preparedness and Planning

5. Emergency Response

6. Restoration

7. Safety Management

8. Lessons Learned
Macondo
Sources

1. United States Chemical Safety Board

2. Norwegian Accident Investigation Board
   http://www.aibn.no/Marine

3. Norwegian PSA
   http://www.psa.no/investigations/category893.html?ptil_md_art_list-select_group=Category-197&ptil_md_art_list-art_list_offset=3

4. Deepwater Horizon Explosion:
   http://en.wikipedia.org/wiki/Deepwater_Horizon_explosion