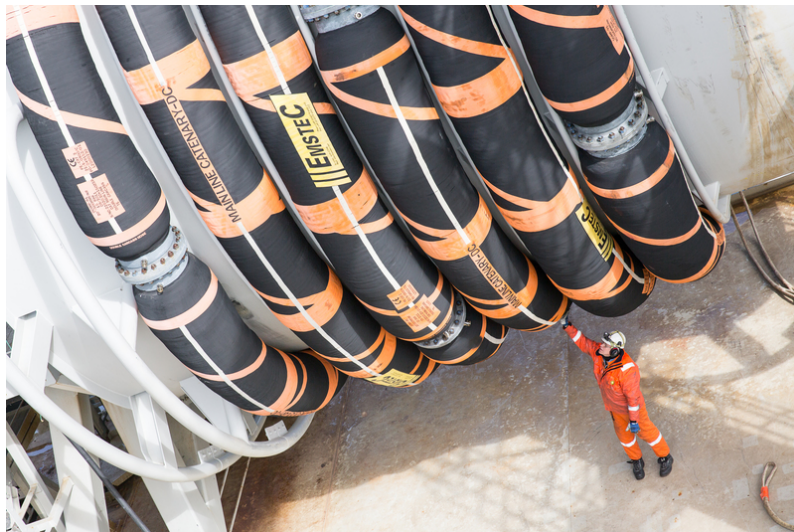


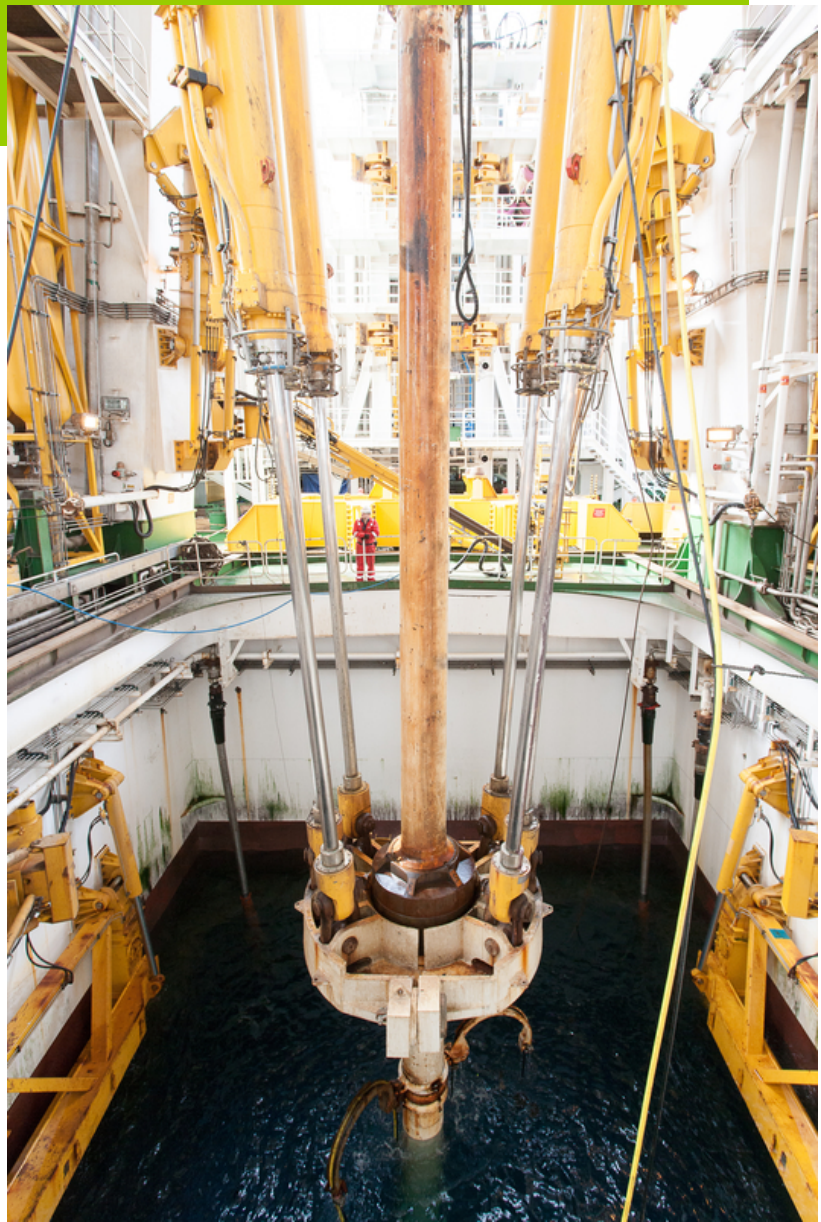


Present approach to environmental care in the offshore industry

Michelle Horsfield
Environmental Specialist Team Leader

A primer to the offshore industry





Glen Lyon Environmentally Critical Equipment



Flare Systems Control and Monitoring

Flare gas recovery system
HP and LP flare systems and gas meters

Oil Spill Pollution, Protection and Response

Bunds and level alarms for hydrocarbon containing storage tanks and vessels

Power Generation Emissions

Power generation packages and waste heat recovery system
GT and WHRU metering and sample connections

Chemical Discharges & Spillages Protection & Response

Level alarms for chemical storage tanks

Fluorinated Gas Management

Refrigeration and HVAC units

Sewage Treatment and Disposal

Sewage treatment package skid

Sand Treatment and Disposal Facilities

Produced sand clean up system
Sand cleaning sampling points

Hazardous and Non-hazardous Waste Containment and Disposal

Waste stations and containers

Drain Discharges & Control

Slops system

Produced Water Injection, Treatment and Monitoring

Produced water treatment & reinjection system
Produced water metering: Oil in water analysers, sampling points, flow meters

Vented Gas Control and Mitigation

Flare gas recovery system



Present approach



- *Net* environmental benefit not always considered
- Know what we need to do: clear framework exists
- Industry has areas of complexity that need detailed understanding
 - spill planning
 - *Significant* aspects
- Understanding of marine environment changes
 - MPA's
 - impact of offshore structures as reefs
 - Ocean acidification