DECOMMISSIONING

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Decision 98/3 on the disposal of disused Offshore Installations:

*The dumping, and the leaving wholly or partly in place, of disused offshore installations within the maritime area is prohibited.*
DECOMMISSIONING PROCESS

BACKGROUND

Late life platform operations

Shutting down Production & Decontamination

Suspension

Heavy Lift & Transport

Site remediation

Rundown to COP

Well Shut-in

Hot to Cold

Suspension Cold

Removal & Transportation

Continued Liabilities

From Infield: Offshore structures North-Sea < 1600 ton
From Infield: Number of Offshore structures Southern North-Sea to be removed per year
TOPSIDE LIFTING - TODAY

In common:

- Aiming at very large platforms
- And / or very small operation window

Pioneering Spirit
Versabar 10000
All sorts of reverse Installation operations. Small-piece removal
MAIN REQUIREMENTS

- Capable of lifting of offshore topsides <1600 tons
- Low-cost
- Regions:
  - Primarily North Sea
  - Spin-off to other regions
- Preferred lifting method: from below
- Good operability
- Suited for other functions in the decom chain as well
THE VESSEL

MAIN CHARACTERISTICS

- Loa: 95m
- Boa: approx. 43m
- Column-stabilized semi-submersible. Result: very low motions
- Offshore auxiliary crane
- Lifting capacity: 1600 tons at 30m above sea level
  - Weather conditions during lifting: Hs 2m (Sea state 4)
  - Station keeping performance: Hs 3.5 m (Sea state 5)
  - Free sailing speed: 10 kn

- "Portable" equipment:
  - offshore gangway
  - ROV-LARS
  - ...

- 1100 m² free deck area
- Strengthened for wheeled loads

- 55 cabins; suitable for 70 – 100 persons on board.
- Easily expandable

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- Azimuth propulsion
- Self-propelled
- Closed-bus DP-2, DP-3

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THE VESSEL

WHY A SEMI-SUB?

MONO HULL

SEMI-SUBMERSIBLE
THE VESSEL

THIS IS...

- Not the largest
- Not the strongest
- Not a down-scaled Pioneering Spirit
- But: Efficient for the lower end of the market
THE DECOM PROCESS

Late life platform operations → Shutting down Production & Decontamination → Suspension → Heavy Lift & Transport → Site remediation

Rundown to COP → Well Shut-in → Hot to Cold → Suspension Cold → Removal & Transportation → Continued Liabilities

Lifting and tilting jackets for complete removal

From: DECOM North Sea – alternative decommissioning options – Rigs To Reef

a) Leaving jacket in place
b) Tilting and sinking
c) Cutting the upper part and placing it on the sea bed
d) Towing to another location and tilt / sink it
OTHER TASKS

SUBSEA OPERATIONS
OTHER TASKS

LIGHT (DE)CONSTRUCTION
What do we have:

- Concept design for a versatile offshore lift vessel
- It fullfills main market demand for efficient topside removal
- Capable of many other offshore tasks

What’s next:

- Further development with market partners
THANKS FOR YOUR ATTENTION