SUT - Evening Technical Meeting
Decommissioning - Planning for the end
Perth, 12 February 2020
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Introduction to Allseas and *Pioneering Spirit*

Example of jacket removal

Example of topside removal
Introduction
Allseas’ timeline by key vessels

Lorelay
150 m
First on DP

Solitaire
250 m
Redefined boundaries

Audacia
225 m
‘Frontrunner’

Pioneering Spirit
382 m
Largest in the world

Largest vessel in the world

Titanic
Nimitz class Aircraft carrier
Allure of the seas
Emma Maersk
Seawise Giant
Prelude FLNG
Pioneering Spirit
History of Pioneering Spirit
Single lift reduces risks

1. Work in more controlled onshore environment

2. Lower likelihood of offshore spills

3. Short and predictable offshore operation
Pioneering Spirit in heavy lift mode
Example of jacket removal
Jacket removals

Impression of removing the CNR Ninian North jacket
Upcoming jacket removals

1. Tyra West D
2. Tyra East D
3. Ninian North
4. Tyra West A
5. Tyra East A
6. Gyda
7. Morecambe DP3
8. Morecambe DP4

Tyra A-platforms
Upcoming jacket removals

1. Tyra West D
2. Tyra East D
3. **Ninian North**
4. Tyra West A
5. Tyra East A
6. Gyda
7. Morecambe DP3
8. Morecambe DP4
Upcoming jacket removals

1. Tyra West D
2. Tyra East D
3. Ninian North
4. Tyra West A
5. Tyra East A
6. **Gyda**
7. Morecambe DP3
8. Morecambe DP4

Gyda - re-use case
Example of topside removal
Steps of decommissioning and indicative timeline

1. Engineer lift plan
2. Check structurally (incl surveys)
3. Design platform modifications
4. Fabricate
5. Perform platform modifications
6. Develop procedures
7. Sail, lift, transfer
8. Load-in and decommission onshore

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Example Brent field: Four unique platforms

- **Brent Alpha**
  - Topside: 15,500 t
  - Jacket

- **Brent Bravo**
  - Topside: 24,000 t
  - Concrete

- **Brent Charlie**
  - Topside: 29,500 t
  - Concrete

- **Brent Delta**
  - Topside: 24,000 t
  - Concrete
Offshore platform preparations can be time consuming

Construct
- Lift points
- Bumpers / guides
- Local re-enforcement
- Sea fastening
- ...

Destruct
- Piping
- Ladders
- Caissons
- Leg cutting
- ...

Allseas
Innovations to optimise offshore scope

Brent D
- Steel lift points

Brent B
- Concrete lift points
- Increased lift point height
Lift and transport, 18 June 2019
Brent field, northern North Sea
Topsides transfer to Able UK yard, 20 June 2019
Hartlepool coastline, Teesside, England
Sizeable decom yards in the North Sea area
98% of Brent D was recycled at Able UK
Topside removals

**Completed**
1. Yme removal
2. Brent D removal
3. Brent B removal
4. Valhall QP removal

**Currently being prepared**
1. Ninian North
2. Brent Alpha
3. Tyra West A
4. Tyra East A
5. Morecambe B DP3
6. Morecambe B DP4
7. Gyda
8. Brent C
Questions?

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