Offshore Platform Decommissioning

2021 Science Day

15 April 2021
Win Thornton
Offshore Platform Decommissioning
a view from the waterline

- Assets & Scope
- Regulations
- Supply Chain
- Methods
- Disposal
- Questions
Decommissioning Offshore Platforms
MODU drilling rigs and jackup units are not offshore platforms
Decommissioning Scope
establish asset definition, end state and decommissioning methodology
Safe, Responsible and Cost Effective
options selected through comparative assessments or prescriptive rules

Where there are options, selection of decommissioning solutions based on:

- Safety of own staff and contractors
- Residual risk to “other users of the sea”
- Ecosystem impact of removal, or leave in place
- Emissions and energy use from activities
- Waste hierarchy principles
- Stakeholder views
- Technical/engineering options
- Cost
Decommissioning Regulations
process understood; global experience being gained through projects
End State - OSPAR 98/3 Derogation enables safe decommissioning of large jackets
End State – GOM Reefing In-Place
preferred configuration is partial abandonment in-place vs topple or cluster.

Program gets the steel

Operator keeps the well liability

Leave Jacket Base as Reef
Decommissioning Costs
distribution varies globally with regulations and asset makeup/configuration

Decommissioning ~10% of Capital Project

Capital Project

All UKCS Projects

- Monitoring
- Site Remediation
- Topsides and Substructure
- Onshore Recycling
- Pipelines
- Subsea Infrastructure
- Substructure Removal
- Topsides Removal
- Topsides Preparation
- Facility/Pipeline Making Safe
- Subsea Wells
- Platform Wells
- Facility Running/Owner Costs
- Operator Project Management

* Indicates expenditure clearly identified as removal

Source: Oil & Gas UK
Decommissioning Supply Chain
skills & opportunity throughout the WBS; maturing global supply chain

The initial phases of a decommissioning project use skills that are very similar to Late Life Operations. Be the incumbent or improve on the incumbent.

The later phases of a decommissioning project use skills that are very similar to Installation, IMR and Demolition. Be a part of an integrated solution that minimizes/optimizes offshore/onshore content.
Multiple Methods & Tools Available

global supply chain capable of delivering fit for purpose solutions

Reverse Installation

Single Piece

Piece Small

Topsides

Jacket
Benchmarking Performance
learning by doing – industry sharing global best practices and lessons
Disposal
existing capability and experience; integrated into global supply chain
Reuse & Repurposing
process exists but opportunities very limited, most platforms fully removed
In Summary
We are doing ok in decommissioning

- **Known** processes/tools/regulations
- **Learning** as we go, continuous improvement
- **Supply chain** is in motion to step up
- Asset **risks are known** through existing operations
- Decommissioning **activities are similar** to operations and construction...with similar risks...ones that are known
- **Risk profile reduces through decommissioning process** as wells are plugged and hydrocarbons removed
- Disposal activity is straight forward and the **supply chain is well positioned** to deliver now and as work load grows
For more information please contact:

Win Thornton win.thornton@bp.com
+44 7900 277 834
+1 281 217 8220

www.iogp.org