

Offshore Platform Decommissioning

2021 Science Day

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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





Louisiana Artificial Reef Program



Decommissioning Costs

distribution varies globally with regulations and asset makeup/configuration



of Oil & Gas Producers

Decommissioning Supply Chain skills & opportunity throughout the WBS; maturing <u>global</u> 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





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





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