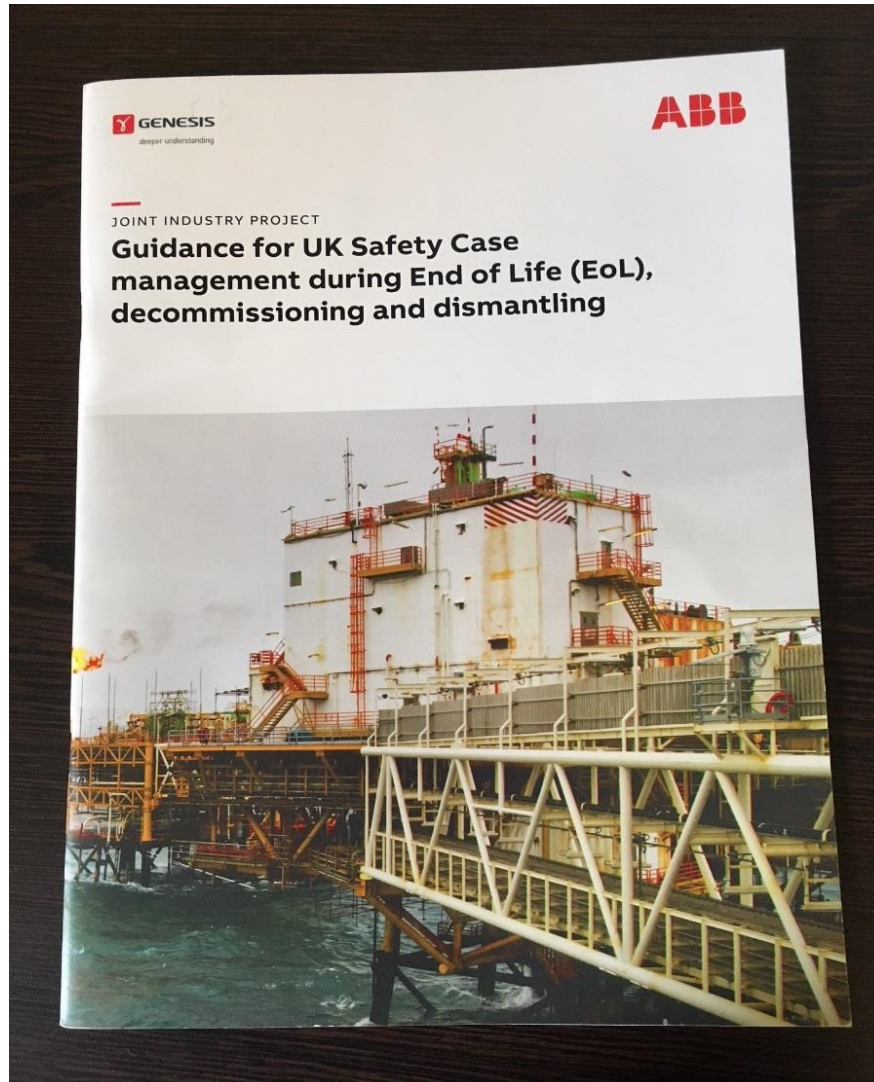


Alison McKay, ABB

Management of Hazards and Guidance for Safety Case Compliance for Offshore Installations in Late Life, Decommissioning and Dismantling

Joint Industry Project (JIP) and Safety Case Guidance



JIP involved:

6 operators:

Centrica E&P

CNR International UK Ltd.

Marathon Oil

Repsol Sinopec Resources UK Ltd.

Shell UK Ltd.

TAQA Bratani Ltd.

Oil & Gas UK

ABB

Genesis Oil & Gas

Guidance for UK Safety Case Management during End of Life, Decommissioning and Dismantling

Includes:

4. Good practice approach to end of life/decommissioning safety case compliance:

4.1 Project Removal Methodology

4.2 Safety Case Strategy and plan

4.3 Regulatory and Stakeholder engagement

4.4 Safety and Environmental Management System (SEMS)

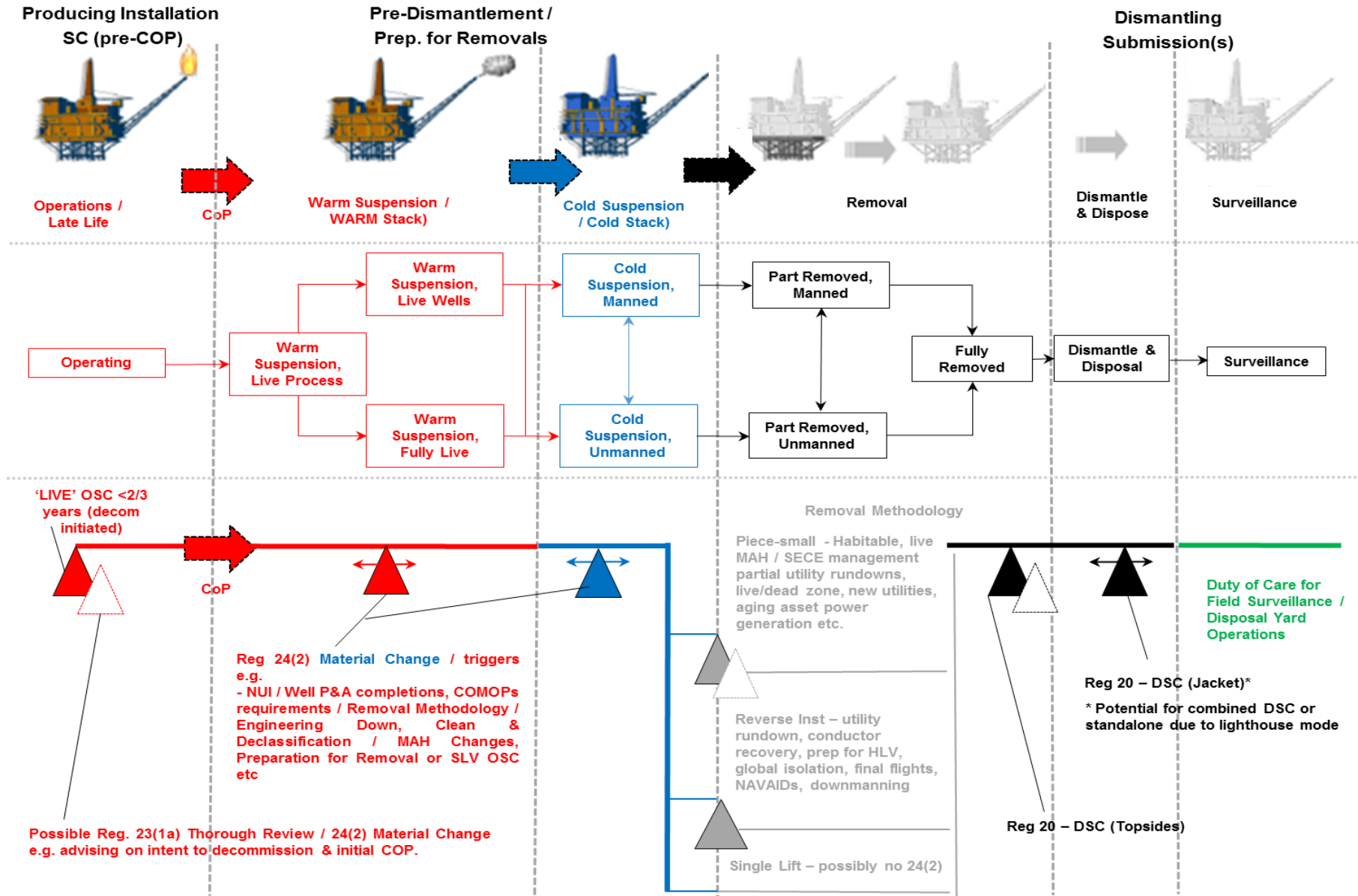
4.5 Live Dismantling Safety Case

4.6 Major Safety and Environmental hazard management

5. Lessons Learnt from technical exchanges

6. Case Studies *(operators' experiences)*

Safety Case Strategy Timeline



Key Learnings – Regular Communications

1. Be pro-active in communicating with the regulator, and prioritise internal communications.
 - Can clarify what constitutes a material change
 - Minimises Safety Case submissions
2. Ensure interaction between different verifiers (ICP, Marine Warranty Surveyor etc).
 - The verification scheme is agreed between the duty holder & verifier. It is probable that prior to the final dismantlement there may be significant changes to the SECE

Key Learnings - Culture

3. View decommissioning as part of operational lifecycle, not as separate project.
4. Maintain safety culture and awareness of Major Accident Hazards.
5. Engage contractors early to avoid late changes in decommissioning activities.

Conclusions

- Industry have willingly shared their experiences so that others do not have to learn as they go along.
 - JIP was Highly Commended in recent IChemE Awards in 'Team' category for demonstrating collaboration.
- The guidance developed should therefore help in the delivery of a consistent approach from both the regulated and the regulator to the development of the safety case for EoL to Dismantlement.
- Guidance is additional advice, NOT a substitute for Safety Case Regs (OSCR 2015) or HSE's Guidance Document (L154).
- Hazards & SECEs change in different phases (add more, or scope of SECE may reduce).
- Develop a strong working relationship with the Verifier and be ready for significant changes to the verification scheme to be required relatively quickly.

Guidance for UK Safety Case Management during End of Life, Decommissioning and Dismantling

Available to download from:

Oil & Gas UK website:

https://oilandgasuk.co.uk/wp.../Guidance-for-UK-Safety-Case-Management_.pdf

ABB website

ABB