

Marine Well Containment Company

BSEE Effects of Deepwater Workshop Forum

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Marine Well Containment Company's Commitment

- Continuously ready to respond to a well control incident in the deepwater U.S. Gulf of Mexico
- Continuously advancing deepwater well containment in the U.S. Gulf of Mexico
- Recognized and respected leader in deepwater well containment in the U.S. Gulf of Mexico

MWCC's Membership

ExxonMobil



ConocoPhillips



Apache

Anadarko


bhpbilliton

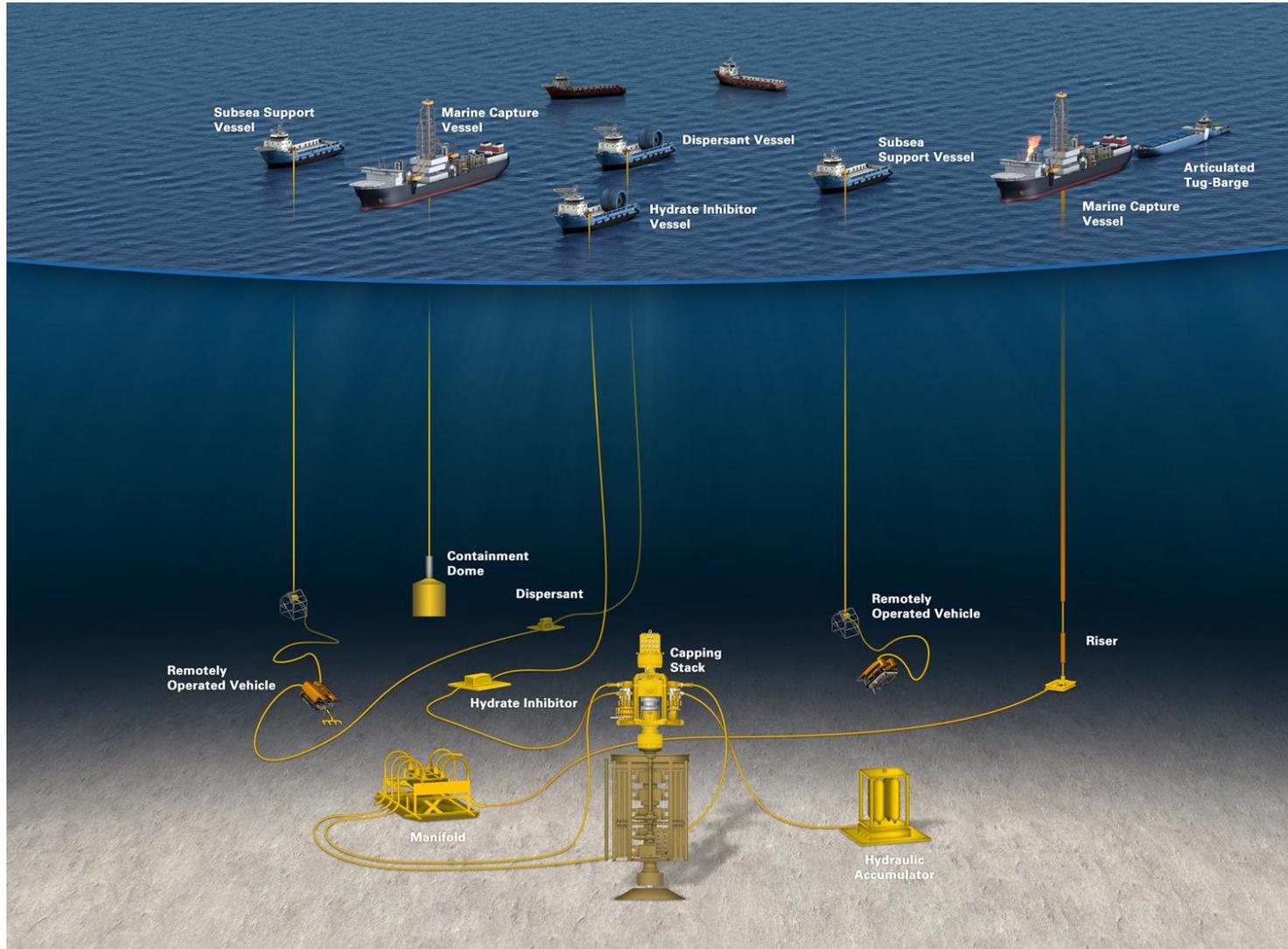
 **Statoil**



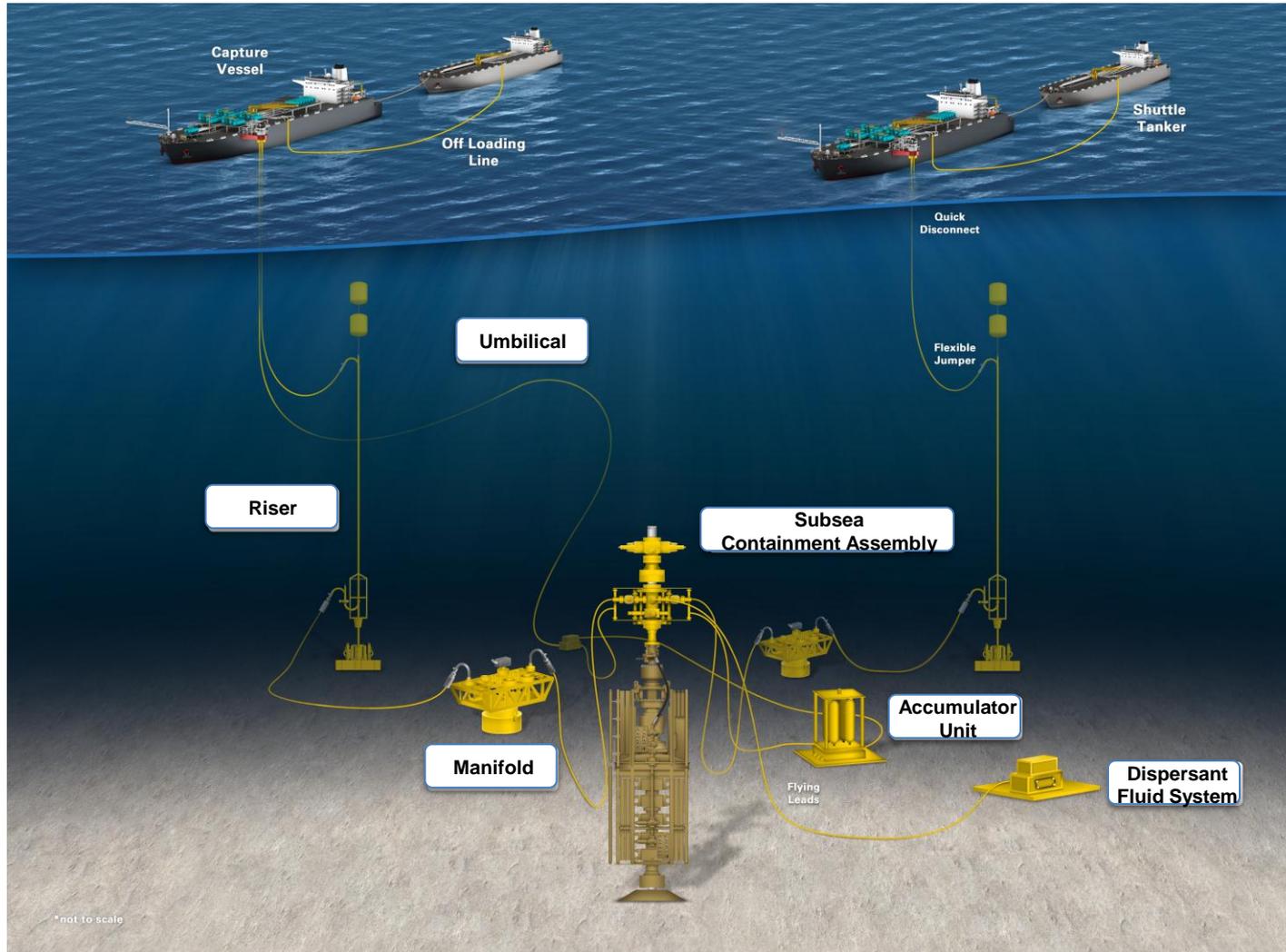
About Our Company

- Independent, not-for-profit company
- 10 members, each with an equal share and an equal vote
- Investment of over \$1 billion
- Maintain equipment and organization in a continuous state of readiness
- System available to all operators in the U.S. Gulf of Mexico
- Advancing well containment technology

Interim Containment System: Ready To Be Deployed



Expanded Containment System: Under Construction



White Paper Challenges MWCC Supports

- Containment systems must advance as member needs advance
 - Water depth
 - Pressure and temperature rating
 - Hydrate management
 - Hydraulic capacity
 - H₂S
 - Capping stack footprint size for tight well spacing beneath TLPs

Mitigation: Operator must demonstrate containment system is sufficient prior to permit being issued

- SIMOPS is a factor in response

Mitigation: Operator plans overall response, including subsea layout, ahead of any event

- Debris removal enhancements could be considered, but are sufficient
 - Release of LMRP

- Additional training may be appropriate
 - BOP/ROV intervention
 - Well control

- Regulatory interaction on proposed rule-making

- Enhancements to command structure to ensure federal/state alignment

White Paper Perceived Challenges Addressed

Perceived challenge	Improvements implemented to date
Shallow water containment unavailable	Equipment deployment in water depths as shallow as 400-500' is feasible and has been addressed in a recent permit application. However, other factors such as extent/diffusion of surface oil accumulation may impact ability to operate within required installation zones
Readiness testing insufficient	Sufficient readiness tests have been established by containment companies <ul style="list-style-type: none"> ▪ Simulated deployment drills ▪ Pressure/Functions tests ▪ System integration tests
Capping stack deployment plans insufficient	Capping stack deployment plans are fully developed prior to referencing in any permit application
Quick Disconnect Systems not ready	Quick disconnect systems fully tested or plans in place to ensure readiness
Heat loads not addressed in containment systems	Heat loads from flaring and flow system integrity designed in containment systems
Required vessels not sourced	The Operator/Responsible Party identifies multiple vessels capable of deploying and operating the capping and containment equipment in their permit applications
Open water capture devices not ready	Open water capture devices ready today – response focus is on getting control of well
Floating Production Platform plans not ready	TLP/SPAR plans sufficiently developed through collaboration with the regulator; permits approved