



**MARINE WELL
CONTAINMENT**
C O M P A N Y

Marine Well Containment Company

Charlie Miller, Chief Technology Officer

January 25, 2012

Agenda



- Company Overview
- Interim Containment System
- Expanded Containment System
- 2012 Priorities

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▪ Company Overview

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- 2012 Priorities

Our 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

About Our Company



- Leading deepwater well containment system and technology provider for U.S. Gulf of Mexico
- Expertise in subsea containment and incident response training
- Independent, not-for-profit company
- 10 members, representing 70% of the deepwater wells drilled from 2007-2009
- Each member has an equal share and an equal vote
- Investment of over \$1 billion in system
- System available to all operators in the U.S. Gulf of Mexico as a member or as a non-member (per well basis)

ExxonMobil



ConocoPhillips



Apache

Anadarko

bhpbilliton



Key Accomplishments



- Interim Containment System ready to go since February 2011
 - All equipment housed at ASCO shipyard in Houston
 - Capping stack ready for 10,000 ft and TLP/SPARs response plan developed
 - Expanded System Project Underway
 - Aframax tankers fabrication complete and conversion in progress

- Headquarters opened with all processes up and running

- 31 permits granted by BSEE, including 1 non-member

- Incident Response Training:
 - Completed 8 member simulation exercises, including successful BSEE unannounced drill
 - More than 2,000 hours of Incident Preparedness & Response training delivered
 - Deployment tactical plans well developed; generic procedures available

- Industry Recognition
 - Finalist for 2011 Platts Energy Awards for “Industry Leadership”
 - Recipient of LMOGA Blue Herron award

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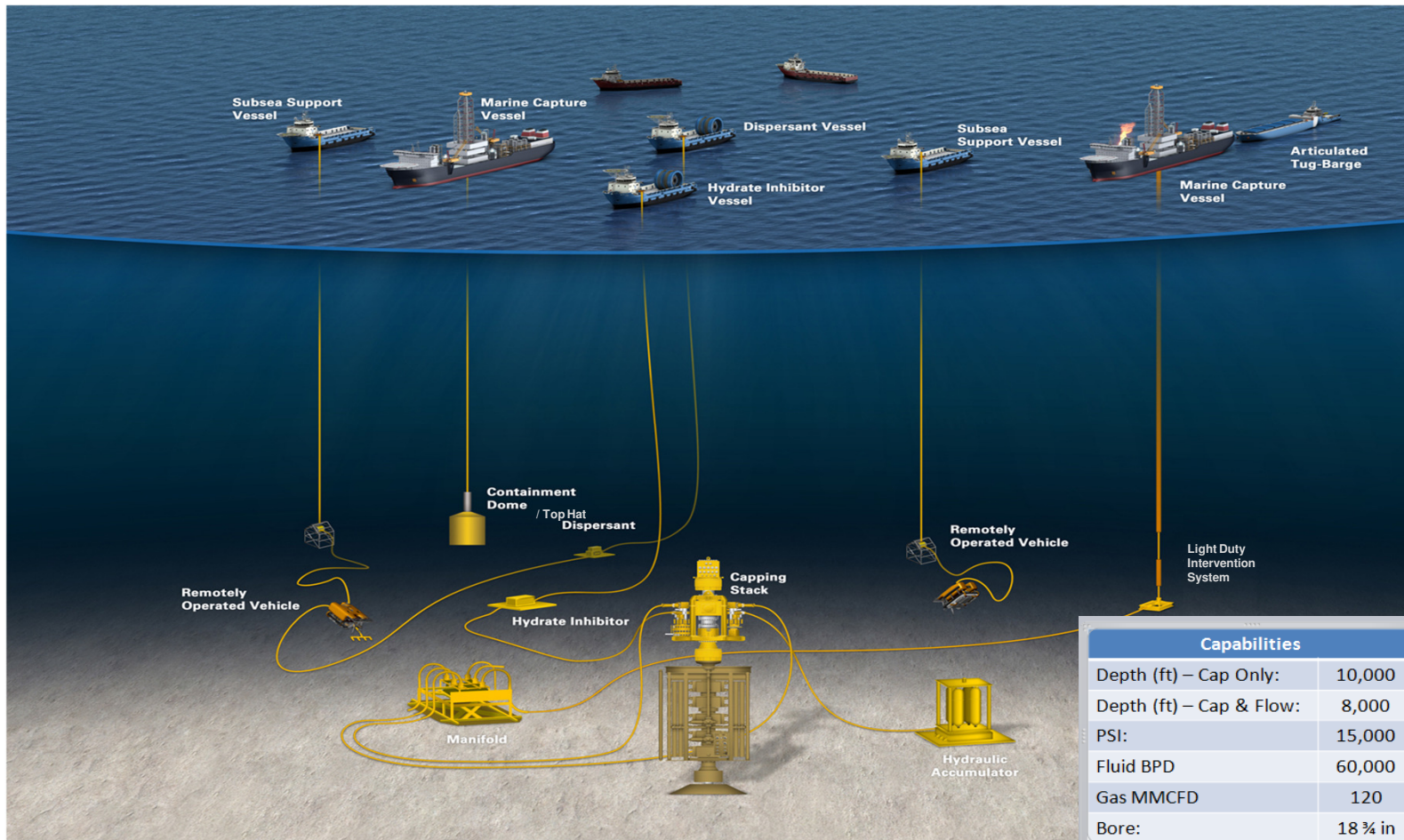


- Company Overview
- **Interim Containment System**
- Expanded Containment System
- 2012 Priorities

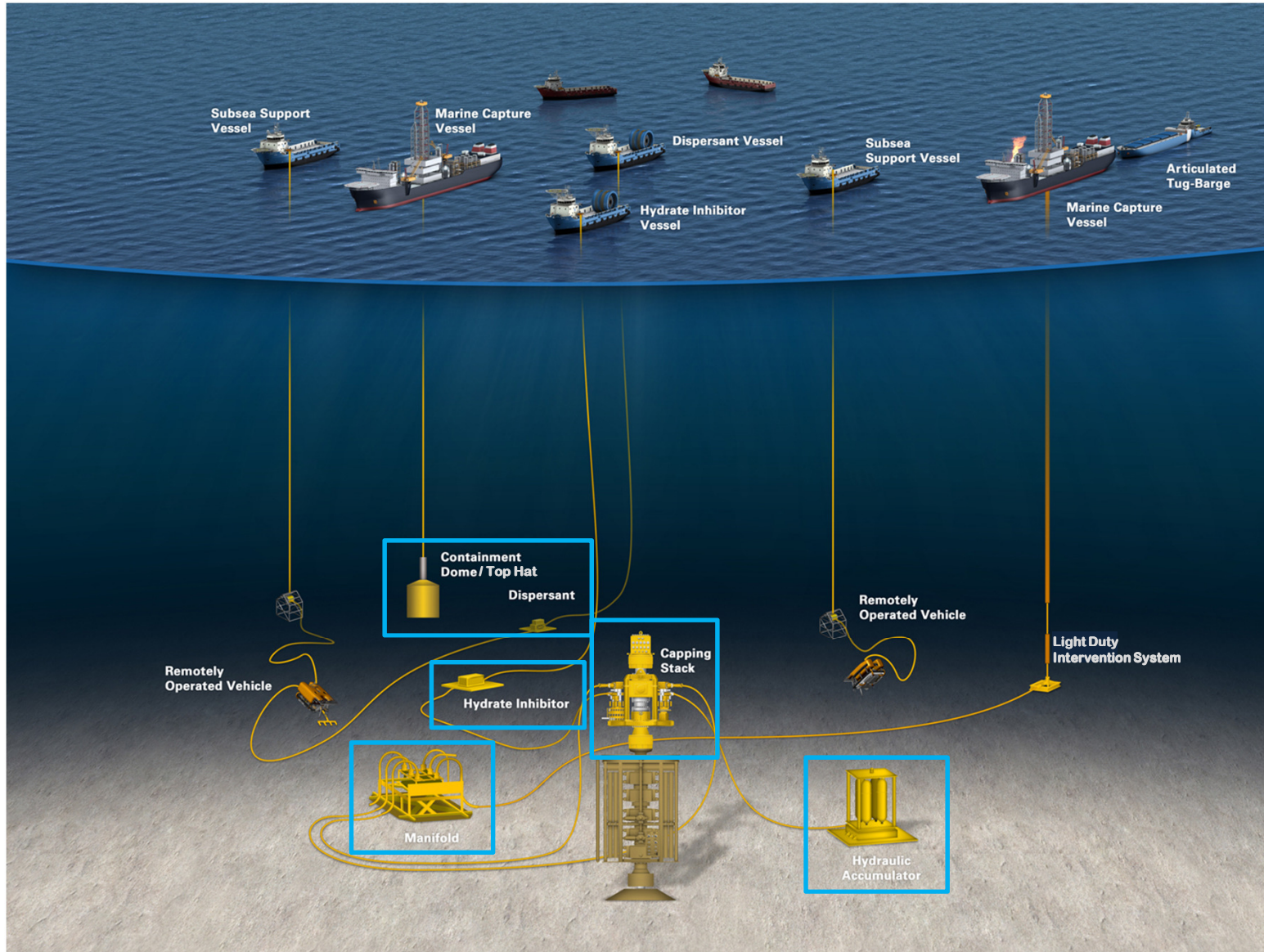
Interim Containment System (ICS)



- All equipment maintained at ASCO shipyard in Houston
- Capping stack ready for 10,000 ft and TLP/SPARs response plan developed



Interim Containment System (ICS)



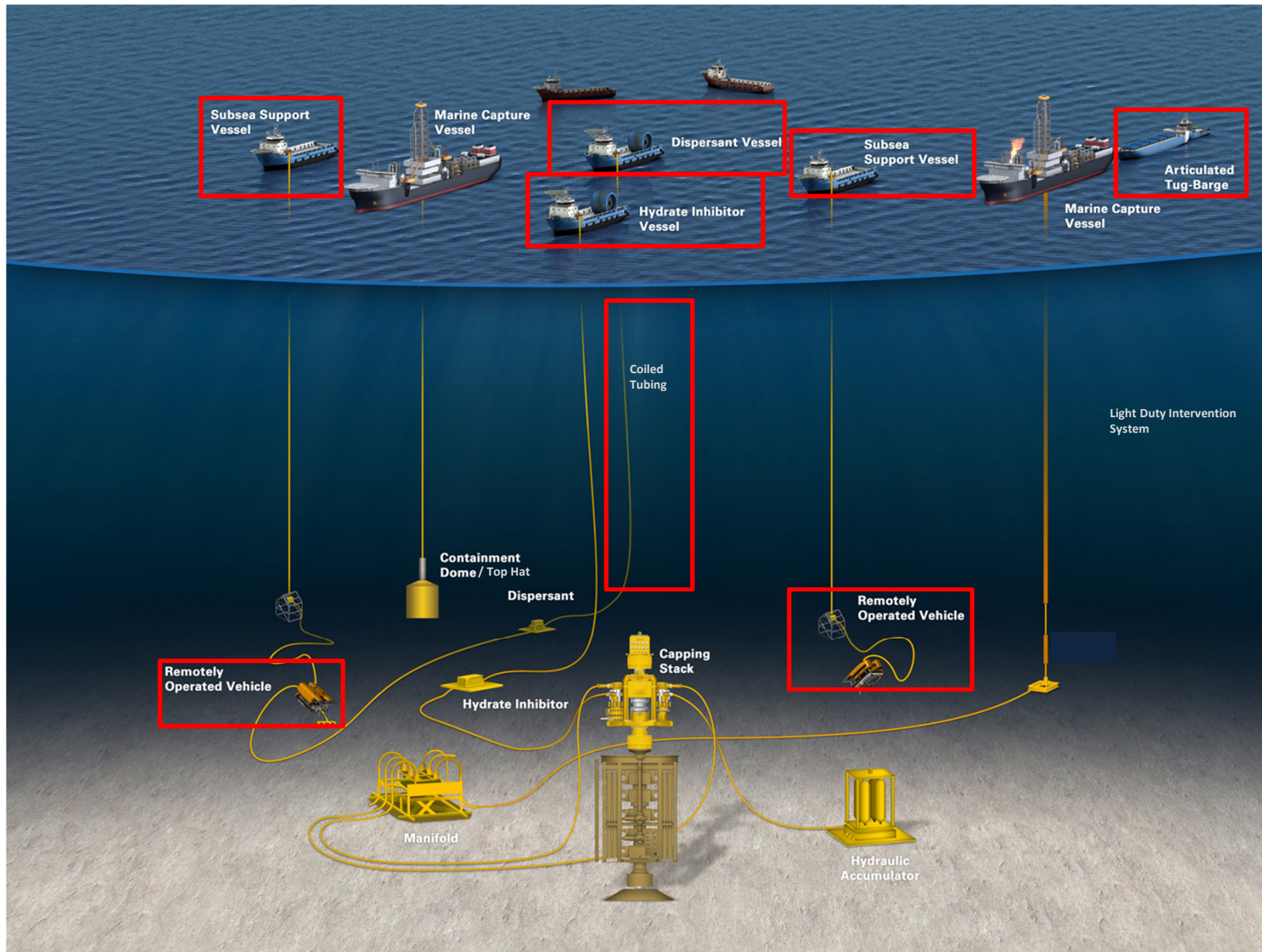
Key

MWCC

RP

Mutual Aid

Interim Containment System (ICS)



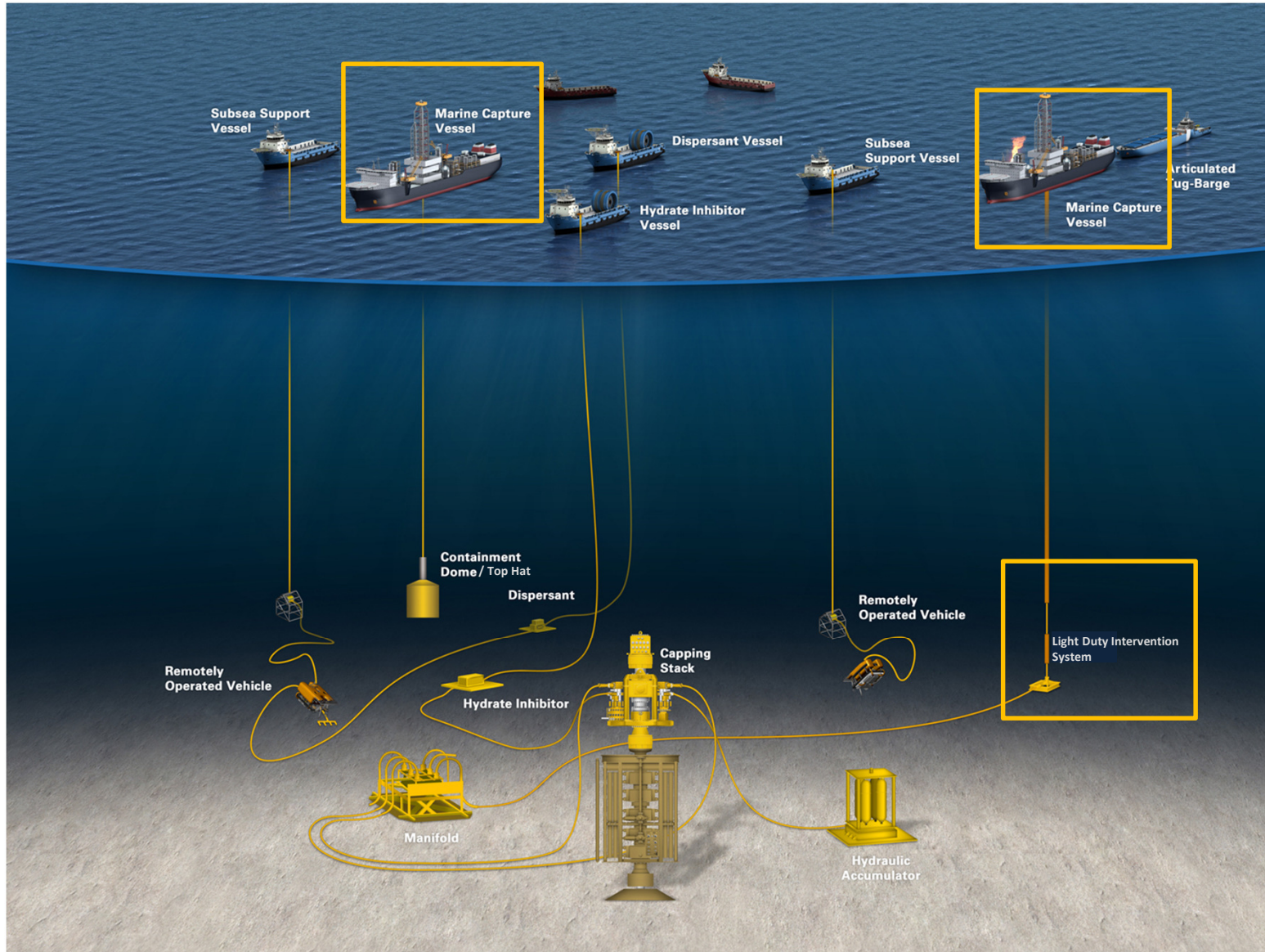
Key

MWCC

RP

Mutual Aid

Interim Containment System (ICS)



Key

MWCC

RP

Mutual Aid

MWCC Containment System Roles



MWCC

- Maintain containment system in ready state
- Deliver capping stack, subsea components, and dispersant to RP shorebase
- Maintain mutual aid inventory list
- Provide generic procedures and technical expertise on operation of MWCC capping stack and other containment equipment
- Provide on-going training to members and contracted parties

Covered Entity (Responsible Party - RP)

- Direct and manage containment response (with Unified Command)
- Remove debris
- Provide marine vessels to deploy containment equipment (Capping Stack, Subsea Dispersant Injection, hydrate inhibition)
- Contract drill ships (through mutual aid) to capture oil
- Install capping stack and subsea components
- Return capping stack and subsea equipment to MWCC upon completion

ICS Components: Capping Stack

Containment System

15 ksi Capping Stack



- Able to cap a well in up to 10,000 ft water depth, dual barrier – ram and cap
- Integration of flexible flowlines enable choke & flow up to 8,000 foot water depth
- Accompanied by a subsea hydraulic accumulator skid that is used to actuate all hydraulic requirements

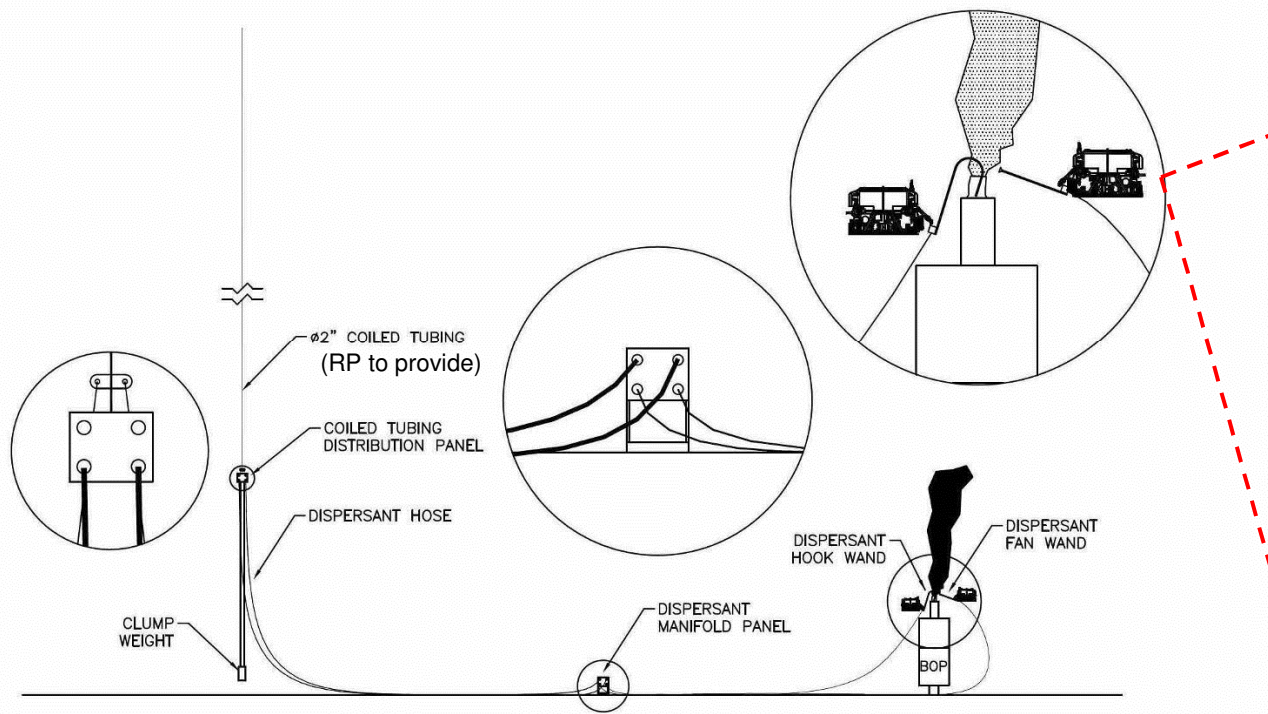
Hydraulic Accumulator Skid



Components Summary

Subsea Dispersant System

Subsea Dispersant Injection System (SDIS)



30-in. and 40-in. Hook Wands



Fan and 50-in. Hook Wand

Minimizes VOCs that have migrated to the surface of the work site by injecting dispersant at the release point

Components Summary

Containment System



Top Hats (5)

- # 1 Captures oil leaking from horizontal pipe
- # 2 Captures oil from well; designed to fit over upper riser adapter flange
- # 3 Captures oil from well; designed to fit over HC or H4 Connector Hub w/ protruding drill pipe
- # 4 Captures oil from well; designed to fit over riser, or HC or H4 Connector Hub
- # 5 Captures oil from well; designed to fit over upper riser adapter flange (last top hat model built by BP)

Mutual Aid Vessels



Discoverer Enterprise (BP)

Capacity: 15-20 kB/D, 40 MSCFD
Modified Schlumberger standard well test kit
permanently installed



Discoverer Inspiration (Chevron)

Capacity: 15-20 kB/D, 40 MSCFD
Schlumberger standard well test kit
available through call-off agreement



Discoverer Clear Leader (Chevron)

Capacity: 15-20 kB/D, 40 MSCFD
Modified Schlumberger standard well test kit
available through retainer agreement



Noble Danny Adkins (Shell)

Capacity: 15-20 kB/D, 40 MSCFD
Schlumberger standard well test kit
available through call-off agreement

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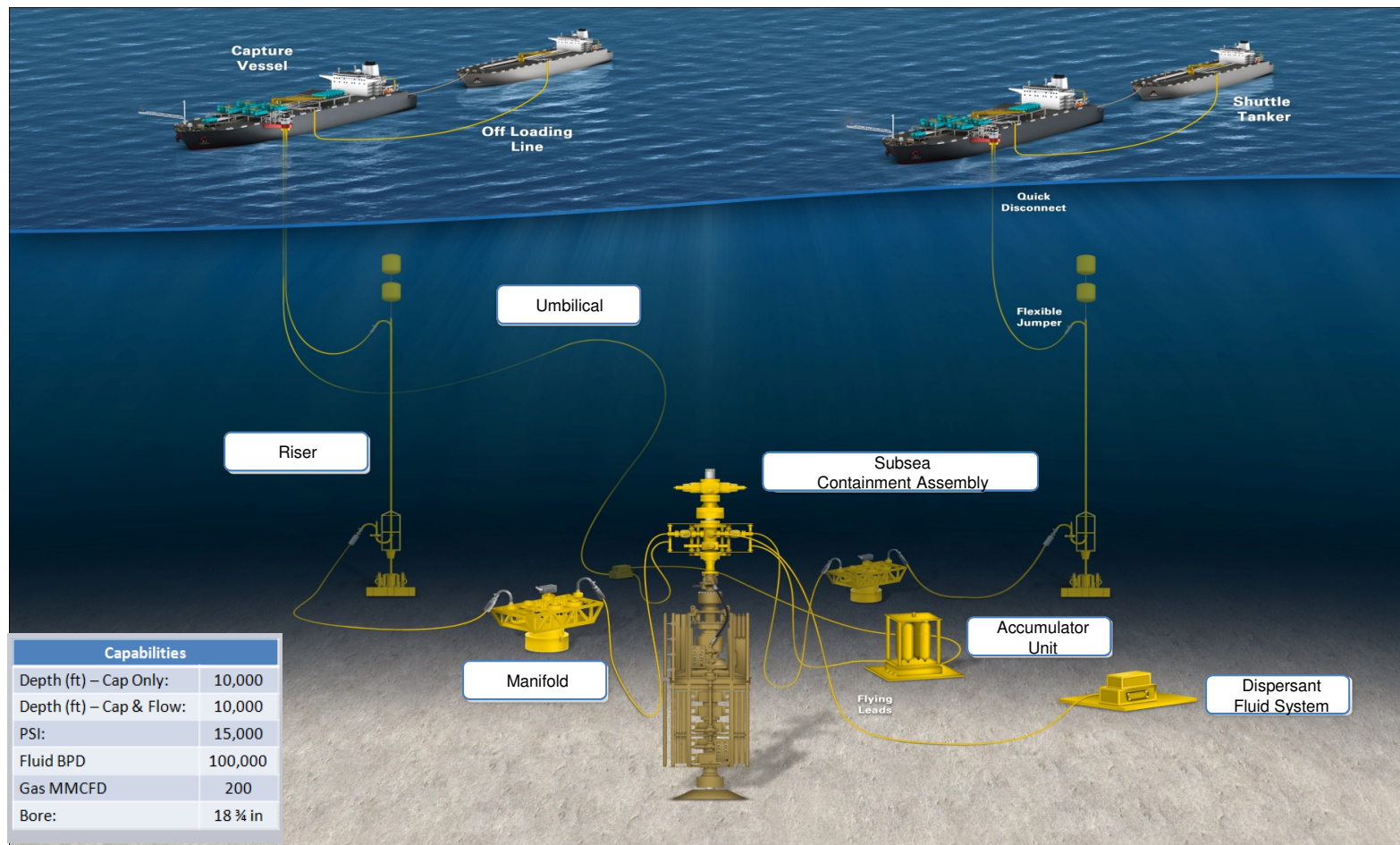


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Expanded Containment System (ECS)



- Increased cap-and-flow depth capability (10,000 ft) and increased fluid capacity (up to 100,000 BPD)
- Dedicated Modular Capture Vessels delivered; conversion in progress



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2012 Priorities



- Continuously advance MWCC's service offering to keep pace with members' needs
 - Prepare for and accept Enhanced Containment System (operations, technology, response ready, and permitting process)
- Continue to evolve incident preparedness and readiness training with members to enhance tactical planning
 - Enhance Containment System readiness (e.g. member drills)
- Continue to attract and motivate quality talent to maintain a high-performing organization



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Q & A