

# Session 5 Summary

## Post Incident Containment & Well Control

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# WATER DEPTH EFFECTS

- ▶ There is no effect of water depth on Containment Capabilities
  - Current Systems Qualified to 10,000' WD, Future Systems to 15K
  - Current Flow Systems are not recommended for use in <500' of water
  - Survey of ultra-deep water vessel capability (>10,000' & 300K lbs)

# FEATURED ITEM

## ► Incident Command

- Decision Making – Pre agreed decision process
- Roles and Responsibilities
- COS address training & standards for contractors
- Decision to cap & capping point
- Document created on How to build and Structure a SIMOPS Plan
- Interagency Coordination (FAA, DOD, Navy, US Customs)

# ACTION ITEMS

## ► Technology

- **Dispersants**
  - API Oil Spill Preparedness & Response Subcommittee
  - Mixing Equipment of Dispersants (especially Shallow Water)
  - Industry Survey of Methanol & Dispersant Transport & Storage Capacity
- **Well integrity determination (B annulus pressure monitoring)**
- In well shut-in devices & supplemental shearing
- MWD Ranging Tools
- **High Resolution Seismic**
- Survey of ultra-deep water vessel capability (>10,000' & 300K lbs)
- **Riser Release**
  - At Lower Flex Joint
  - Increase Pressure Rating of Riser Connection to 10,000 psi
- Hydrostatic Assist to Shear
- Industry Survey of DW Hydraulic Power Unit Capacity
- Deploy Full System Simulator for Containment Training

# ACTION ITEMS

## ► Regulations

- Use APA Process Rulemaking & Collaboration
- Regulatory requirements focused on major hazards
- Streamline approval for Subsea Dispersant Use, Is Monitoring Required?
- Resolve Containment Qualification Testing

# ACTION ITEMS

## ► Operations / Standards

- **Industry Requirements Capping Stacks**
  - Clear Consistent Definition of Containment, including terms of Containment. (API/BSEE)
  - Capping Stack RP to define functionality, Tiered Capping Stacks developed for optimum mitigation (RP Workgroup)
  - Capping Stack RP to define Capability for Top Kill (RP Workgroup)
  - Soft landing Capping Stack (RP Workgroup)
  - Loading and Bending Moments for Capping Stacks
  - Industry Review of Other Containment Scenarios (RP Workgroup)
- RP for Containment Plans/Requirements (Once Requirements Solidify)
- Wellbore Screening Tool / Blowout Risk Assessment JIP (BORA)
- **BOP Enhancements**
  - Enhanced Shearing Capability, Erosion Resistance and Materials for Severe Service (Subcommittee 16/Std 53 Workgroups)
  - Pressure & Temperature External Monitoring on BOPs (Subcommittee 16/Std 53 Workgroups)
- Document Mutual Aid Rig Requirements

# ACTION ITEMS

## ► Communications

- Interagency Communication (EPA, NOAA)
- Industry Group/Regular Meeting to Share Containment Learnings
- Debris Removal – Share info from containment companies
- Community Outreach (Education) including NGOs, Academia on Containment Capabilities
- Create Pre-Identified Technical Experts for Scientific Advisory Panel for Containment Event

# THANK YOU

