



#### CONFERENCE ORGANISED BY ENERCLUB AND SUPPORTED BY ACIEP

"SAFETY AS A PRIORITY IN OFFSHORE OIL OPERATIONS"

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# Madrid Charlie Williams – Executive Director

#### **Deepwater – Industry / Focus Approach**



### Joint Industry Task Force Groups Formed After Macondo

- Offshore Equipment
- Offshore Procedures
- > Subsea Well Control & Containment
- **➤** Oil Spill Preparedness & Response



#### **Results of Joint Industry Task Forces**

- Offshore Equipment
   API Std 53 Practices for Blowout Prevention Equipment Systems for Drilling Wells
- Offshore Procedures
   API RP 96 Deepwater Well Design Considerations
   API Bulletin 97 Well Construction Interface Document
   API RP 65-2 Cementing & Isolation & Barriers
- Subsea Well Control & Containment
- Oil Spill Preparedness & Response









# Our Mission

Promote the highest level of safety for offshore drilling, completions, and operations through Effective leadership, Communication, Teamwork, Safety management systems, and Independent 3rd-party auditing & certification.



# Safety & Environmental Management Systems – SEMS Or Process Safety

#### What are the Elements of SEMS?

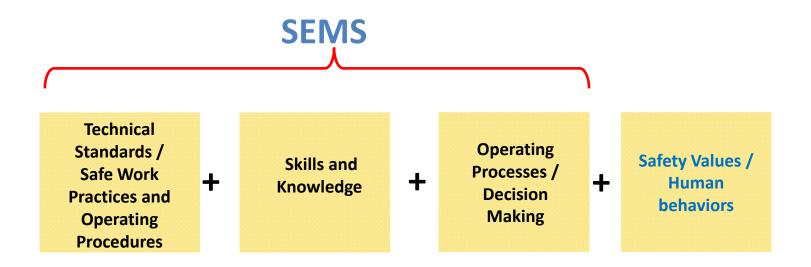
Leadership & Commitment	Mechanical Integrity
Safety & Environmental Information	Pre-startup Review
Hazards Analysis	<b>Emergency Response &amp; Control</b>
Management of Change	Incident Investigation
Operating Procedures	Audit
Safe Work Practices	Records & Documentation
Training	Contractor Management



#### **SEMS Purpose**

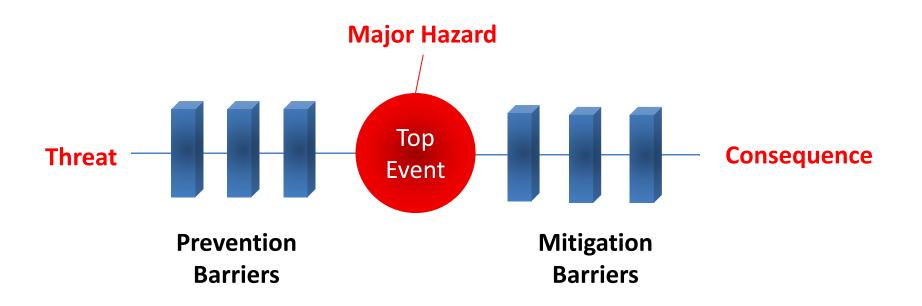
**Goal: Safe & Reliable Operations / Operational Integrity** 

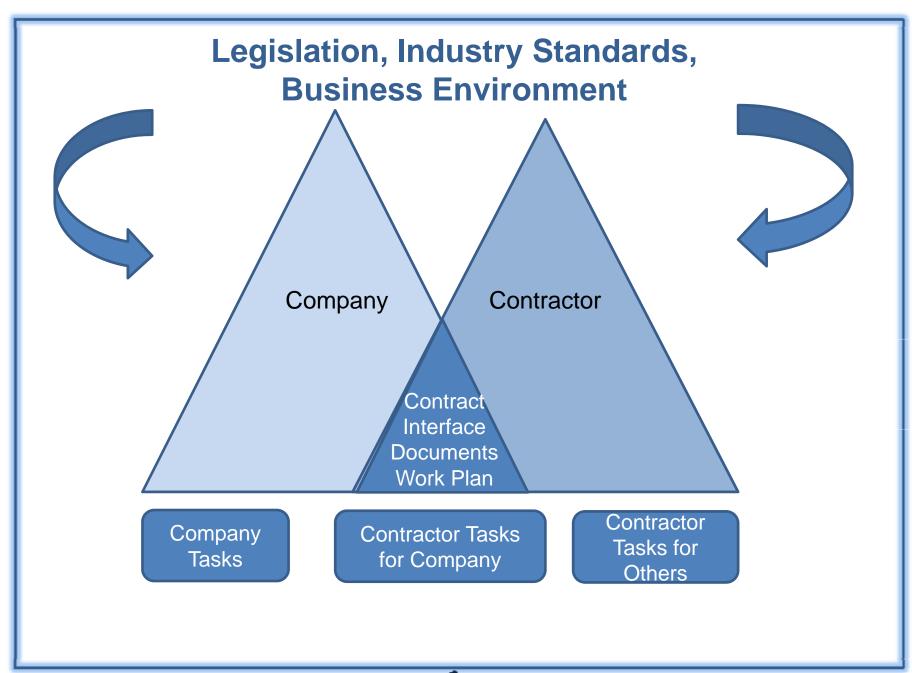
SEMS is a key mechanism to reduce the likelihood of major incidents





#### **Bow Tie Approach**







- Data Collection, Analysis & Reporting
- Assistance & Good Practices
- Outreach & Communication
- Accreditation, Certification, & Auditing



#### **COS Activities**

- Leadership Site Engagement
- Safety Performance Indicators
- Improving Industry Learning Capability
- Verification of Contractor Skills & Knowledge







- Learning frm **Audits**
- SPI'S Defined
- Incident Defined

- Industry Begins

- Reporting
- Auditor & Tm **Capabilities**

#### Phase III

- Learning frm SPI's
- Learning frm Incidents
- Begin Culture/Behavior
- Skills & Competencies **Defined**

#### **Phase IV**

- **Continuously Assess Effectiveness**
- Sustained Continuous **Improvement**
- Supporting Safety **Culture & Behaviors**
- Sustained Effective **Leadership Engagement**
- -- Systems to Maintain, **Enhance, and Sustain** Capability





- Audit Tools
- ASP & Auditor Tools



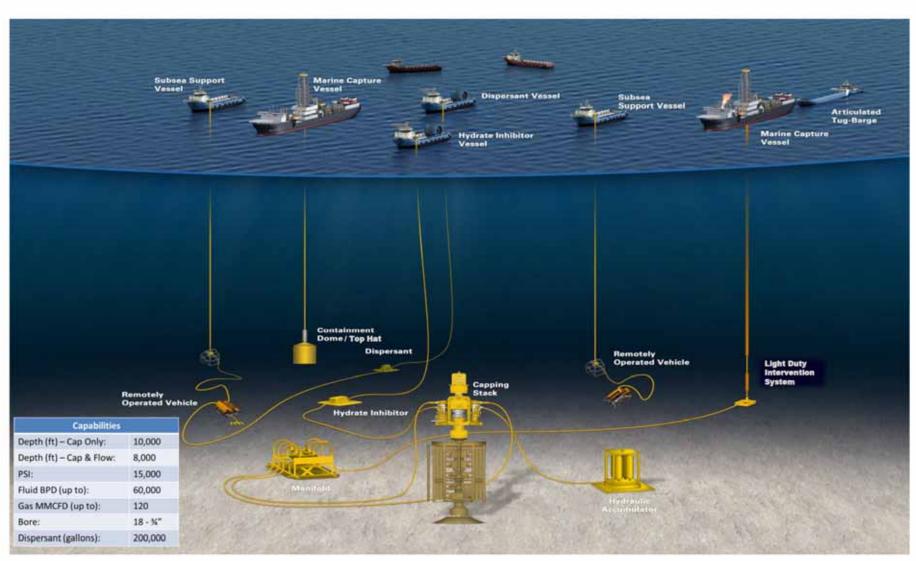




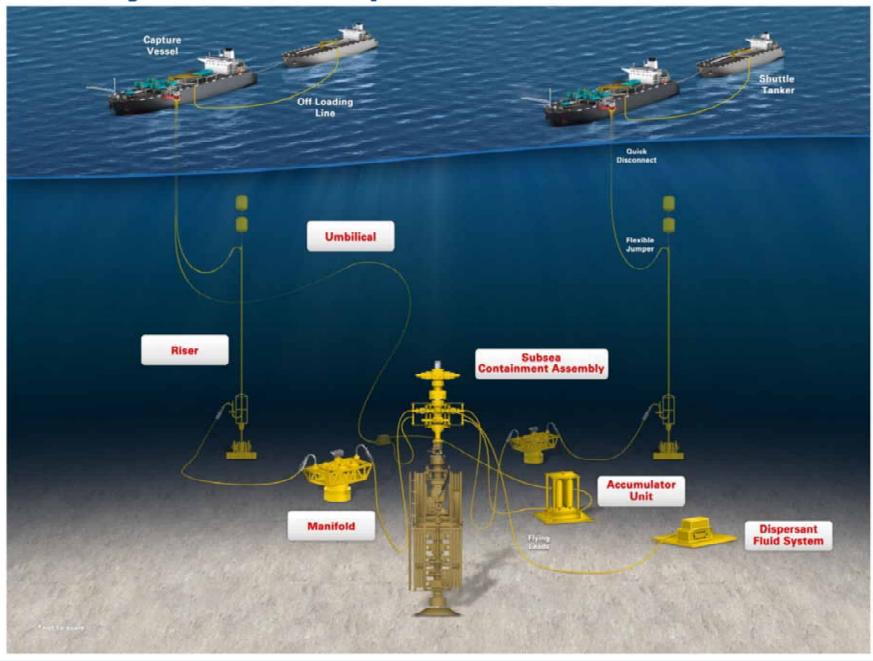


#### Interim Containment System (ICS)





#### **Expanded System: In Development**





### **Thank You**



## Questions