

Pipeline Breakout Session

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Pipeline Breakout Session Introduction

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Pipeline Impacts from Ivan

- 33,000 miles of pipeline in GOM; most pipelines performed satisfactorily
- Multiple failure modes
 - Unprecedented pipeline movement
 - Anchor line/chain damage
 - Reefed or sunken vessels
 - Rubbing of pipelines at crossings
 - Tension



Purpose of Breakout Session

- Review efforts of industry pipeline workgroup
- Address pipeline-specific hurricane issues
- Identify opportunities to improve on technology, design practices, operating practices, regulations and standards
- Share experiences and lessons learned Participate!!!



Objectives

- 1. Summarize Observations (Successes and Failures)
- 2. Summarize What Was Learned
- 3. Identify Needs for Improvements
 - Operating Practices
 - Design Practices
 - Regulations/Standards
 - Technology



Today's Schedule

- Introduction
- Facilities & Geotechnical Storm Impact
- Response Management Industry Perspective
 - Break
- Recovery (Operations, Assessment, Mitigation)
- Data Gathering
 - Lunch
- Open Forum and Panel Discussion
 - Break
 - Plenary Discussion Air & Marine Vessel Support
 - Discussion on Breakout Sessions

- **-** 8:00 **-** 8:15
- **8:15 9:15**
- 9:15 10:00
 - -10:00-10:20
- **1**0:20 11:30
- **11:30 12:00**
 - 12:00 1:00
- **1:00 2:30**
 - -2:30-2:50
 - -2:50-3:20
 - 3:20 4:30



Facilities & Geotechnical Storm Impact

■ Pipeline damage locations



Response Management

- Preparations and evacuations
- Hurricane tracking
- Reconnaissance flights
- Operational response
- Head office response
- Incident Command System



Recovery

- Three phases of recovery:
 - Assessment of pipelines
 - Mitigation of pipeline damage
 - Return to operations
- Regulatory approvals
- What went well? What needs improvement?



Data Gathering

- □ Pipeline Team's efforts
- JIP planning
 - Pre-storm vs. post-storm mapping of seafloor
 - Storm-related pipeline damage inventory
 - Analysis of pipeline failure causes
- Request for data or participation in JIP



Presenters and Panel Members

- □ Tom Wicklund, BP
- Kevin Gaudet, Chevron
- Michael Gordon, ExxonMobil
- Jim Hooper, Fugro-McClellan
- Alex Alvarado, MMS
- Mark Wrzyszczynski, Shell
- Aaron Demo, USCG