

# Status of Bly Recommendations

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# Implementation of IIT Report Recommendations

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- **September 8, 2010 - BP IIT Report issued:**
  - Investigation made 26 recommendations
  - Over ~180 deliverables
  - Purpose: “to enable prevention of similar accidents” by “strengthening the defensive physical or operational barriers needed to eliminate or mitigate hazards.”
- **Recommendations Cover 2 Broad Categories:**
  - DWOP and OMS
  - Contractor oversight and assurance

# Implementation of IIT Report Recommendations

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- **Immediate Implementation Actions:**
  - Immediate action taken to address all 8 Key Findings
  - Interim Guidance - temporary measures for safety of ongoing operations
- **Bly Recommendation Implementation Team:**
  - At its peak, ~85 personnel dedicated to implementation
  - Numerous others working on implementation in the line

# Implementation of IIT Report Recommendations

## 14 recommendations already complete at the global level:

- ✓ 1.1 - Update and clarify cementing practice and guidelines
- ✓ 1.3 - Update technical practices to address (a) well design consideration of negative pressure testing and (b) casing lock-down requirements.
- ✓ 1.4 - Review and update Engineering Technical Practice (ETP) on Working with Pressure to include negative-pressure testing.
- ✓ 1.6 - Propose recommended practice for foam cementing to API
- ✓ 2.1 - Strengthen the technical authority's role in cementing and zonal isolation
- ✓ 2.3 - Develop an advanced deepwater well control training program that supplements current industry and regulatory training.
- ✓ 2.4 Establish BP's in-house expertise in the areas of subsea BOP and BOP control systems
- ✓ 2.5 - Request that IADC review and consider the need to develop a programme for formal subsea engineering certification.
- ✓ 3.1 - Strengthen rig audit process to improve closure and verification of audit findings
- ✓ 4.1 - Establish key performance indicators for well integrity, well control, and rig safety-critical equipment
- ✓ 5.1 - Conduct an immediate review of the quality of the services provided by all cementing service providers.
- ✓ 7.1 – Require HAZOPs for surface gas and drilling fluid systems
- ✓ 7.2 – Include study of all drilling rig surface system hydrocarbon vents in all HAZOPs
- ✓ 8.5 – Develop a clear plan for ROV intervention for each subsea BOP

# Recommendation 1.1 - Cementing Guidelines and Associated Engineering Technical Practices (ETPs)

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## ✓ COMPLETE

- Revised ETP 10-60 issued globally
  - Including training, gap assessment, MoC
- Developed and rolled out nine guides covering key cementing activities
- Independent third-party verification of testing results for critical wells in the Gulf of Mexico.
- Contractor personnel evaluated and assessed
- Technical cementing experts required to approve Basis of Design (BoD) and procedures



## Recommendation 1.4 - Review and Update GP 10-45 to include negative pressure testing

### ✓ COMPLETE

- Revised ETP GP 10-45
  - New requirements for negative-pressure testing
  - Incorporated into a Well Control Training program
- Detailed procedures:
  - Rig specific configuration
  - Contractor sign off
- Independent verification and approval of pressure integrity testing:
  - Each test requires sign-off; no tests approved on rig
  - WSL and Contractor (Toolpusher) involved in test sign-off; recommendation sent to shore for approval
- Third WSL who is “Lead”: Required to sign off; liaison with contractor

## Recommendation 2.3

# Advanced Deepwater Well Control Training Program

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### ✓ COMPLETE

- Deepwater well control training program developed
- Mandatory for applicable BP and drilling contractor staff involved in deepwater operations
- Embeds lessons learned from Deepwater Horizon accident
- Includes training regarding pressures; including negative pressure testing