Bureau of Ocean Energy Management, Regulation and Enforcement /BOP Safety and ROVs

ROV Tooling for Blow Out Preventer

ROV Training/post Macondo Blowout

ROV Training through Simulation

Emergency OPS Center Support

Moving from Simulation to Augmented Reality

Back to the Future - Telepresence
ROV Simulator Training Now Required

In paragraph (e), the operator is required to maintain an ROV and have a trained ROV crew on each floating drilling rig on a continuous basis. The crew must be trained in the operation of the ROV. The training must include simulator training on stabbing into an ROV intervention panel on a subsea BOP stack. This requirement will help provide assurance that a properly trained crew is available for use during an emergency situation.
BOP Intervention
Customized Solutions
Continued Innovation
Industry’s Response
Continued Innovation

PUMPS
- Increased gpm Input Flow
- Increased Input Pressure
- Increased Output Flow
- Increased Output Pressure

SUBSEA ACCUMULATOR MODULE

SKIDS
Focused classroom training
ROV BOP operations simulations
ROV Failure BOP Mode Training
✓ Live Real-Time Video Monitoring
✓ Video Conferencing with Vessels
✓ Real-Time Diagnostics Equipment
✓ ROV Data Monitoring
✓ Real time streaming video

Remote Diagnostics/ Monitoring
Satellite Communications Providing Real-Time Capabilities

Real-Time Broad-Band Feed from Vessel/ROV to Operation Center
Improving Safety

Virtual Mission Training on client infrastructure

Realistic views In Dynamic Environments

Continue to Improve Tooling
Increased Situational Awareness

- Provide real-time visualization of operating scene
- Supervisory view of scene
- Available in ROV control van
- Available on vessel bridge
- Available on Shore at Head Quarters

Visualization & Augmented Reality
Thank You