Advances in Capping Stack Technology

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MCE Deepwater Development 2018 —

Responding to a Subsea Source Control Event







Conventional Technology Latest Technology

Statistics:

Dry weight 170 tons Depth 10,000 feet Temperature 250°F Pressure 15,000 psi 40 feet x 20 feet SAM required





Statistics:

Dry weight 45 tons Depth 10,000 feet Temperature 250°F Pressure 15,000 psi 25 feet x 9 feet ROV operated





Response Times - Mobility is Key





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Response Times – Air Mobility is Key

Modular Design – skid mounted Stored in a state of readiness – Houston 2 x Boeing 747-400F or -800F Anywhere in 24 hours...



Response Times - Mobility is Key

Sea Configuration





Preparation & Mobilization



Landing Scenarios: Physics-Based Modeling

DEEPWATER DEVELOPMENT



MCE Deepwater Development 2018 —

Axial Distance from Exit (m)

How Far Have We Come, What's Next?

10kpsi / 250°F / 2,000m... 15kpsi / 250°F / 3,000m... 20kpsi / 400°F / 4,500m



Ram-Based Technology... Gate Valve Technology... Ball Valve Technology



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