Oil & Gas Overview

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Resource Base Potential

- Large hydrocarbon resources in the Arctic and deepwater Gulf of Mexico
- High-level interest from the Oil & Gas industry
- Added complexity due to challenging offshore environments

Source: MMS Assessment of Undiscovered Technically Recoverable Oil and Gas Resources of the Nation’s Outer Continental Shelf, 2006
Deepwater Marine Activities

Floating Drilling
• Stationkeeping
• Re-supply
• Well maintenance/workover

Floating Production
• Stationkeeping
• Well maintenance
• Offloading

Subsea Production
• Well reliability
• Well maintenance
• Subsea equipment

Source: MMS webpage, Deepwater Development Systems
Offshore LNG Terminals

Offshore LNG receiving terminals as an alternative to onshore terminals

- Potential to provide additional energy source to key markets
- Especially in regions where onshore terminal sites are not readily available

Offshore siting considerations include:

- water depth, metocean conditions
- shipping lanes, commercial and recreational fishing
- environmental impacts

Marine safety and security considerations include safety and security zones and coordination of marine operations

ExxonMobil BlueOcean Energy Project offshore NJ/NY
Arctic Marine Activities

Seismic Data Acquisition
- Seismic acquisition vessel
- Support and scouting vessels
- Icebreaker escort for entry/exit

Exploration Drilling
- Arctic drilling unit
- Icebreaking escort and ice management vessels
- Re-supply and crew change vessels
- Helicopter ice reconnaissance

Arctic Construction Support
- Sea transports to support pipeline projects
- Barges, tugs, icebreaker escort

ACEX2004: Geotechnical drilling operation with ice management
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