Is DP an Option for DeepWater FPSOs?

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Conventionally Moored FPSOs for Ultra DeepWater

- Uses conventional turret-mooring technology
- Weathervaning ability provides efficient stationkeeping
  - Wire/Chain: 7 – 10% WD
  - Polyester: 3 – 5% WD
- Readily adapts to ultra deepwater riser systems
- Low maintenance/ Low OPEX
DP Drill Ships for 10,000 feet

Transocean Discoverer Enterprise

• Displacement = 100,000 MT; LxBxD: 835x125x64 feet
• Designed to stay on station for hurricane environments
DeepWater Riser Systems for FPSOs
High Capacity, Disconnectable Turret Systems

Terra Nova FPSO, Grand Banks
# Summary: DP FPSOs

## Advantages:
- Utilizes Conventional Offshore Technology
- Adapts to Ultra-Deepwater
  - No anchor leg system
  - No interference with equipment on seabed
  - Deepwater allows large offsets – easier control
- Candidate for an Early Production System
- Disconnectability allows for Easy Evacuation during Hurricanes

## Issues:
- Stationkeeping Reliability
  - Power generation system
  - Thrusters
  - Control system
  - Operators
- Maintenance
- Life of Field Costs