# Improving Pipeline Spill Prevention, Preparedness & Response - Offshore

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MMS, part of the U.S. Department of the Interior, oversees 1.76 billion acres of the Outer Continental Shelf, managing offshore energy and minerals while protecting the human, marine, and coastal environments.

## Current Regulations Preventing Pipeline Spills

30 Code of Federal Regulations (CFR)

PART 250--OIL AND GAS AND SULPHUR OPERATIONS
IN THE OUTER CONTINENTAL SHELF—

**Subpart J--Pipelines and Pipeline Rights-of-Way** 

#### 30 CFR Sec. 250.1000 General requirements.

(a) Pipelines and associated valves, flanges, and fittings shall be designed, installed, operated, maintained, and abandoned to provide safe and pollution-free transportation of fluids in a manner which does not unduly interfere with other uses in the Outer Continental Shelf (OCS).

#### Current Regulations (con't.)

#### 30 CFR Sec. 250.1004 Safety equipment requirements for DOI pipelines.

- Incoming pipelines to a platform shall be equipped with a flow safety valve (FSV)
- Incoming pipelines boarding to a production platform shall be equipped with an automatic shutdown valve (SDV) immediately upon boarding the platform. The SDV shall be connected to the automatic- and remote-emergency shut-in systems.
- Departing pipelines...protected by high- and lowpressure sensors (PSHL) to directly or indirectly shut in all production facilities.
- The Regional Supervisor may require that oil pipelines be equipped with a metering system to provide a continuous volumetric comparison

#### Current Regulations (con't.)

- 30 CFR Sec. 250.1005 Inspection requirements for DOI pipelines.

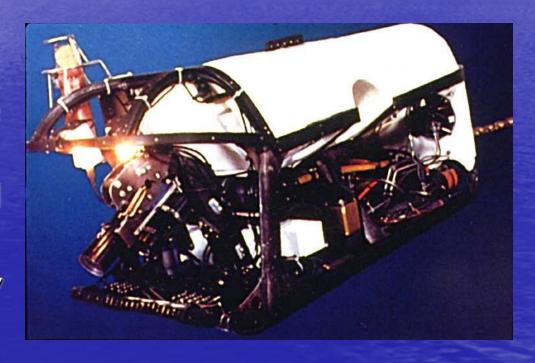
  Pipeline routes shall be inspected at time intervals and methods prescribed by the Regional Supervisor for indication of pipeline leakage.
- **30 CFR Sec. 250.1016 Granting a pipeline right-of-way. (e)(1) ...** The Regional Supervisor may prescribe, as conditions to the right-of-way grant, stipulations necessary to protect human, marine, and coastal environments, life (including aquatic life), property, and mineral resources located on or adjacent to the right-of-way.

#### Overview of Inspection Program

- In 1990, the MMS Pacific OCS Region pipeline inspection program was revised to include:
  - -External and internal inspections every other alternating year
  - Cathodic Protection (CP) survey every year
  - Remediation plan must be submitted for safety or fishing hazard

### Type of Pipeline Inspections and Tools

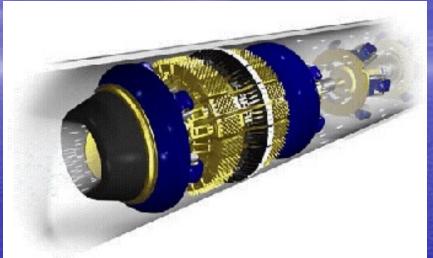
- External inspections conducted by remote operated vehicle or side
   scan sonar
- Used to detect potential external problems including spans, debris, coating damage



### Type of Pipeline Inspections and Tools

 Internal inspections conducted by intelligent pigs, a.k.a. "smart" pigs

Used to detect wall loss (corrosion) and some dents





# Current Regulations – Preparedness and Response

- 30 Code of Federal Regulations (CFR)

  PART 254—OIL-SPILL RESPONSE

  REQUIREMENTS FOR FACILITIES LOCATED

  SEAWARD OF THE COAST LINE
- 30 CFR Section 254.1(a) If you are the owner or operator of an oil handling, storage, or transportation facility, and it is located seaward of the coast line, you must submit a spill-response plan to MMS for approval.

# Current Regulations — Preparedness and Response (con't.)

30 CFR 254 Subpart B Oil-Spill Response Plans for Outer Continental Shelf Facilities

30 CFR 254 Subpart C Related Requirements for Outer Continental Shelf Facilities



# Current Regulations – Preparedness and Response (con't.)

- MMS coordinates the review of the response plan with the U.S. Coast Guard and affected State agencies
- MMS approves the plan
- Training of response personnel
- Oil Spill Exercises
- U.S. Coast Guard Federal On-Scene Coordinator

### Currently Re-Write Subpart J--Pipelines and Pipeline Rights-of-Way

#### Headings of Interest

- -Pipeline Pressure Testing
- -Pipeline Safety Equipment
- -Pipeline Leak Detection
- -Pipeline Internal Corrosion Control and Flow Assurance
- -Pipeline Operations and Maintenance
- -Pipeline Surveying, Monitoring, and Inspection

#### Websites

MMS Website

http://www.mms.gov



Regulations found at

http://www.gpoaccess.gov

http://www.gpoaccess.gov/cfr/retrieve.html

Search: title 30, section 250, subpart J