

Oil Spill Preparedness Program

Overview

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Chief, Oil Spill Preparedness Division

“To promote safety, protect the environment and conserve resources offshore through vigorous regulatory oversight and enforcement.”



Photo: BSEE

Oil Spill Preparedness Program



Preparedness
Verification



Oil Spill Response
Research



Ohmsett
Management

Vessel and Facility Response Plans

Statutory Authority



Presidential Delegation



Agency Jurisdiction



Offshore Facilities		Bureau of Safety and Environmental Enforcement 30 CFR 254
Marine Transportation Related Facilities		U.S. Coast Guard 33 CFR 154
Vessels		U.S. Coast Guard 33 CFR 155
Onshore Facilities		Environmental Protection Agency 40 CFR 112
Railroads		Pipeline and Hazardous Materials Safety Administration 49 CFR 130
Pipelines		Pipeline and Hazardous Materials Safety Administration 49 CFR 194



(Photo: U.K. Maritime and Coast Guard Agency)



Oil Spill Response Plan

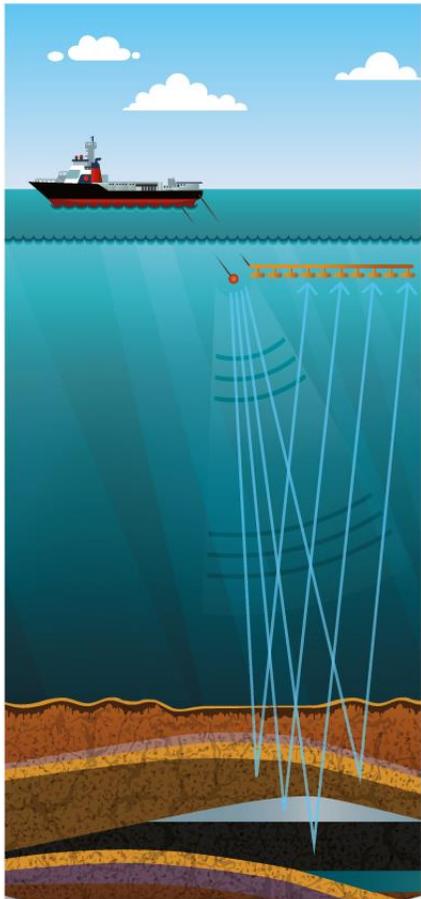


What's in an Oil Spill Response Plan?



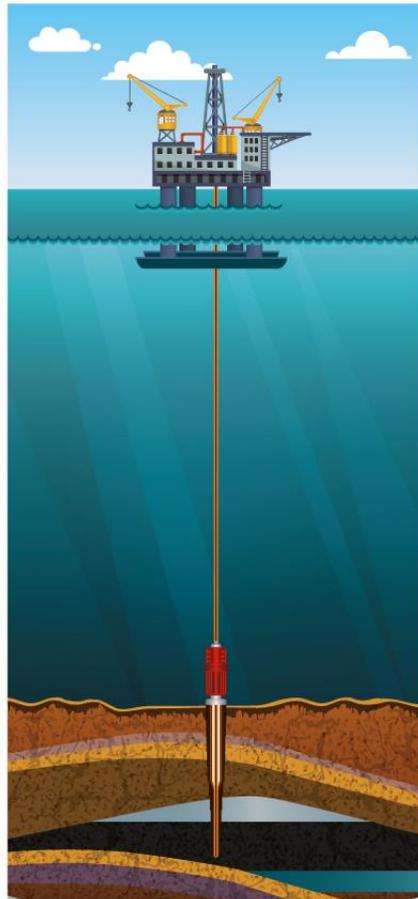
- Emergency contacts and incident management organization
- Facilities covered
- Response equipment inventories and contracts
- Exercise and training processes
- Worst-case discharge scenarios
- Response strategies

General Life Cycle of Offshore Oil and Gas Exploration and Production Operations



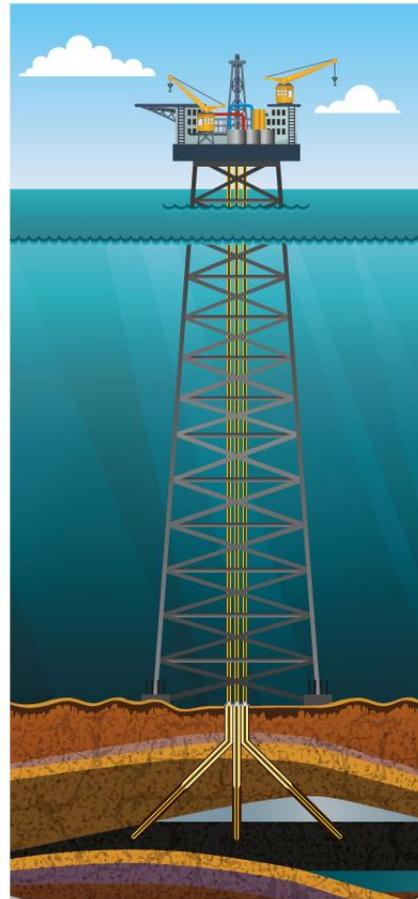
1

**SEISMIC
SURVEYS**



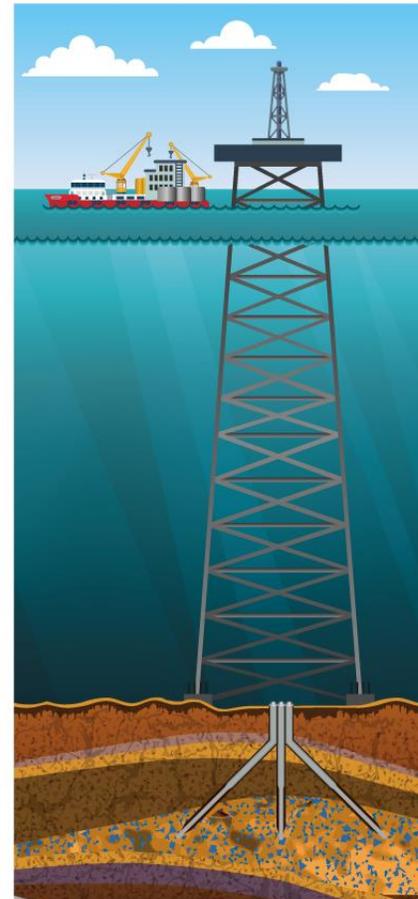
2

**EXPLORATION AND
DEVELOPMENT
DRILLING**



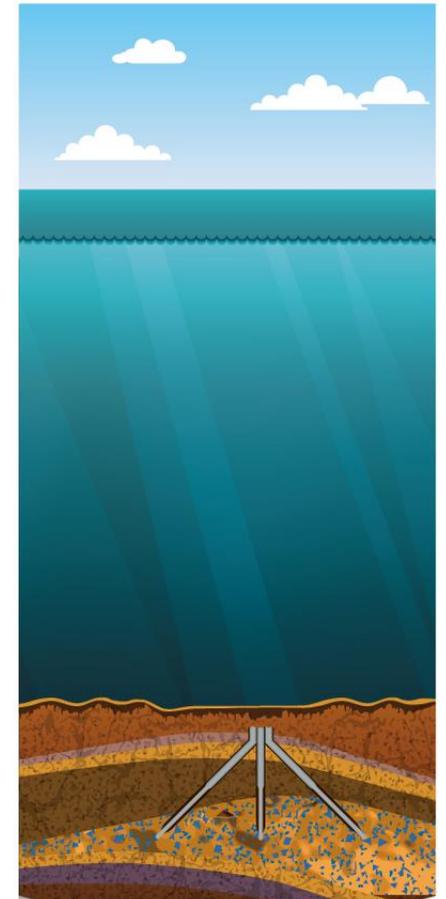
3

**PRODUCTION AND
WELL WORKOVERS**



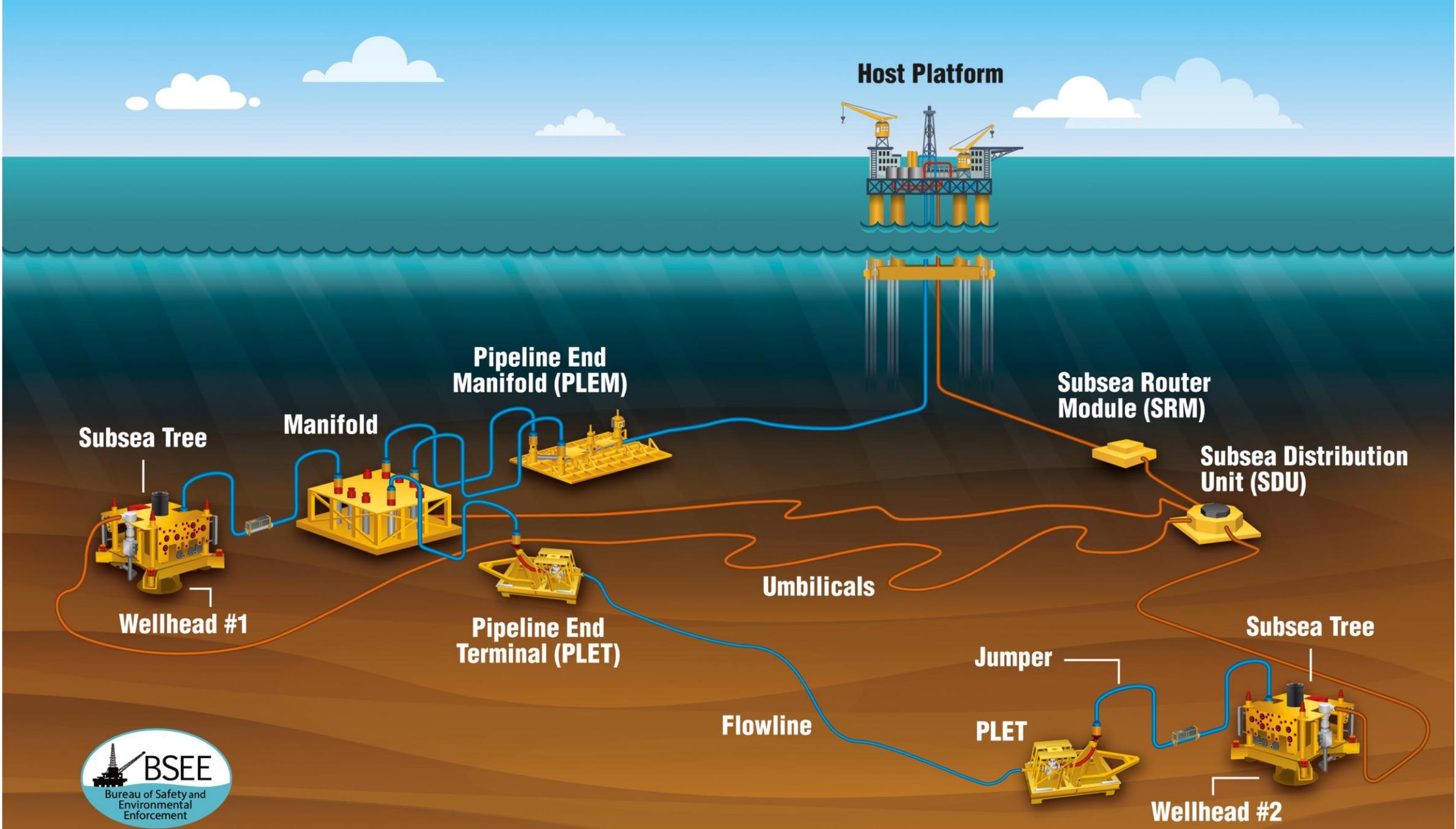
4

**WELL PLUGGING
AND ABANDONMENT**



5

**COMPLETION OF
DECOMMISSIONING**



Host Platform

Pipeline End Manifold (PEM)

Subsea Router Module (SRM)

Subsea Distribution Unit (SDU)

Subsea Tree

Manifold

Wellhead #1

Pipeline End Terminal (PLET)

Umbilicals

Jumper

PLET

Subsea Tree

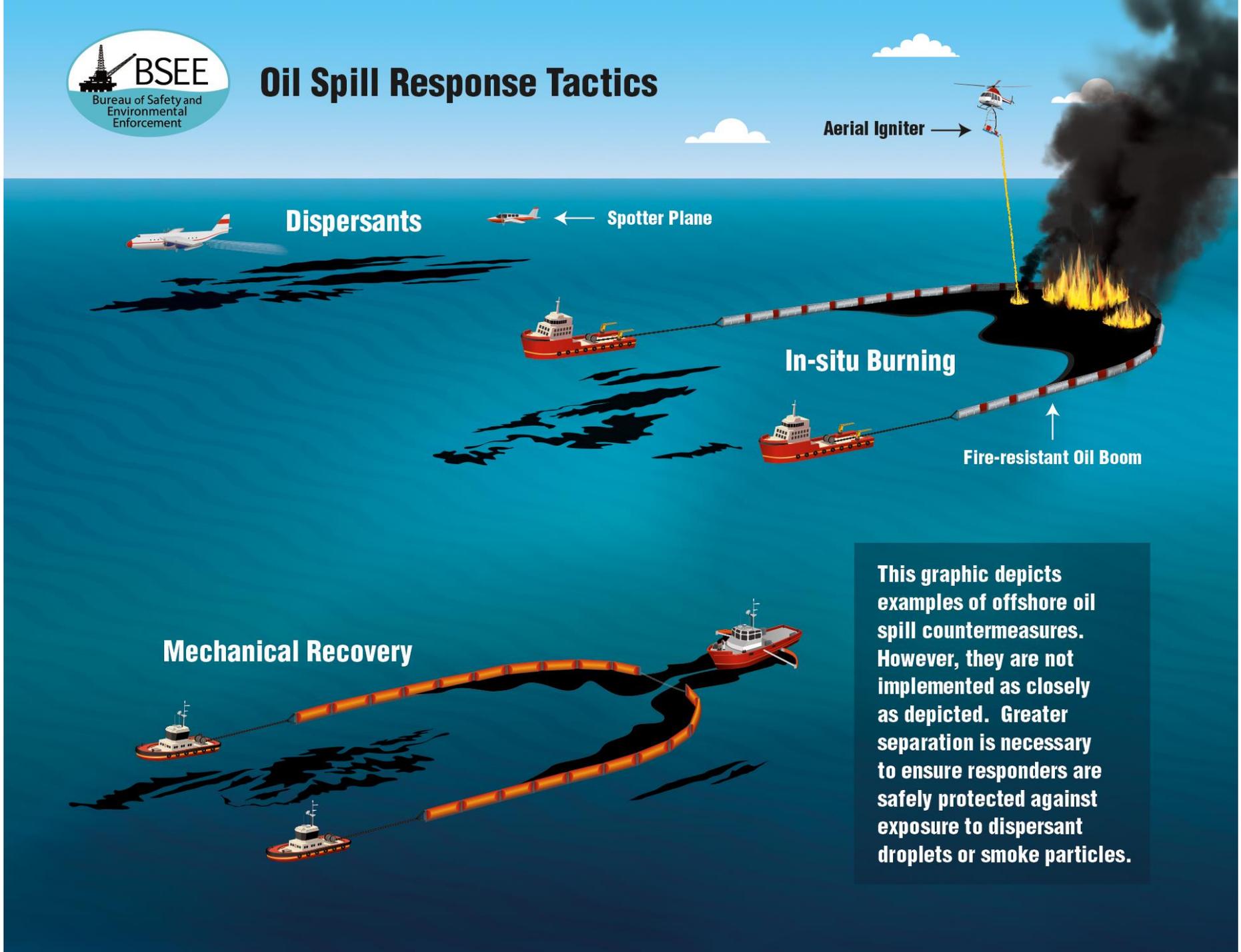
Flowline

Wellhead #2





Oil Spill Response Tactics



Dispersants

Spotter Plane

Aerial Igniter

In-situ Burning

Fire-resistant Oil Boom

Mechanical Recovery

This graphic depicts examples of offshore oil spill countermeasures. However, they are not implemented as closely as depicted. Greater separation is necessary to ensure responders are safely protected against exposure to dispersant droplets or smoke particles.

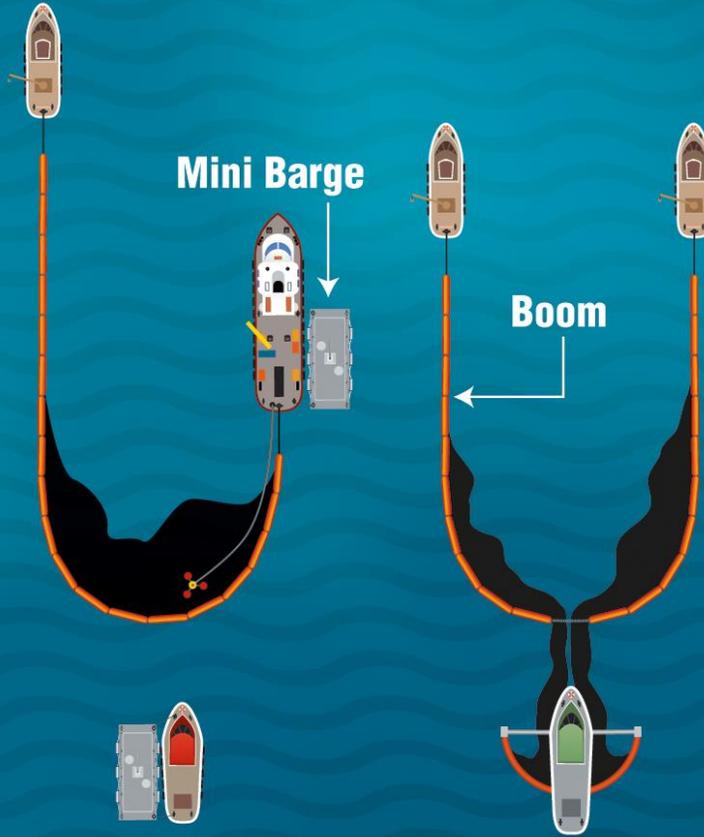


On-Water Recovery Task Force

Aerial Remote Sensing/Monitoring Asset

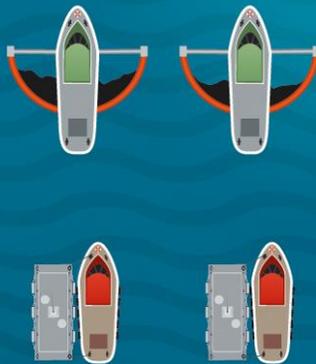


J-boom and U-boom Configurations

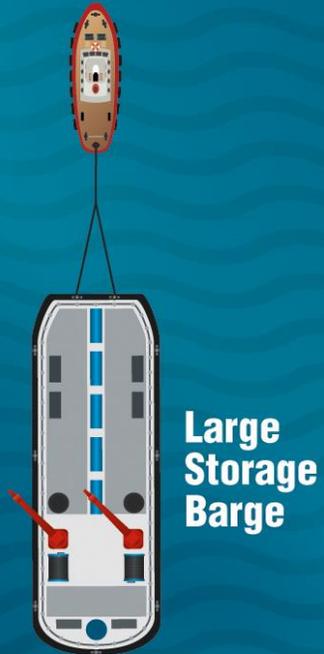


A task force within an Incident Command System can include different combinations of response assets to track, contain, collect and store spilled oil.

Vessels with Sweeping Arm Skimmers



Towing Vessels with Temporary Storage





Oil Spill Preparedness Analysts



Review Oil Spill Response Plans



Support the National Response System



Audit Industry Spill Training and Exercises



Conduct Government Initiated Unannounced Exercises



Inspect Response Equipment

Preparedness Verification

Photo: BSEE



Photo: BSEE

Photo: BSEE



Passage of the Oil Spill Act of 1990 led to . . .

- Designated responsible parties, requirements to operate, and penalties
- Incentivized the creation of a private oil spill response industry





Preparedness
Verification



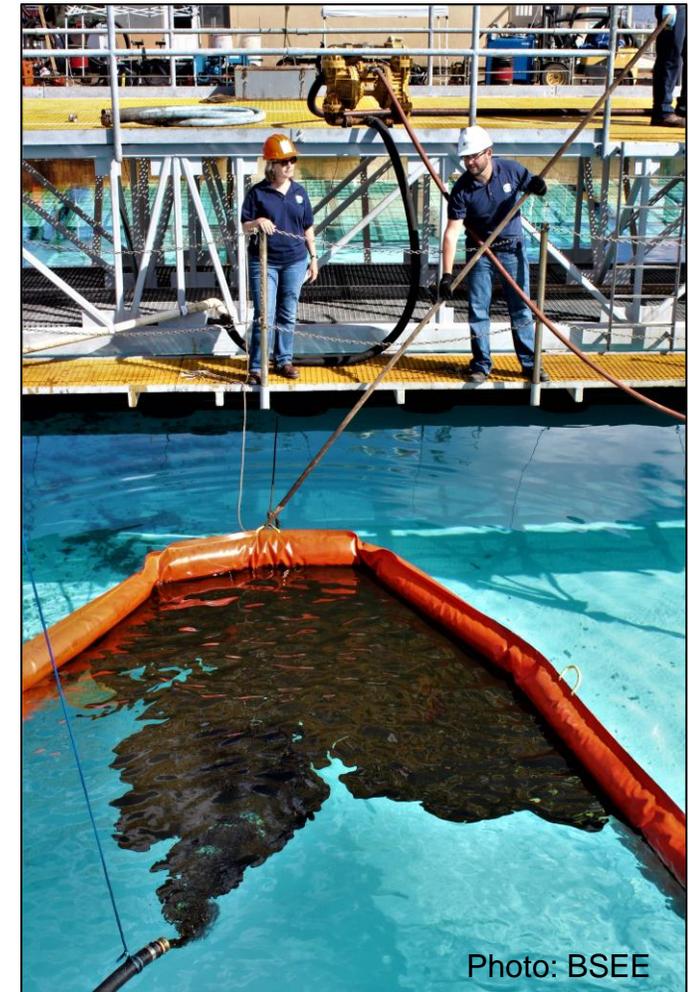
Oil Spill Response
Research



Ohmsett
Management

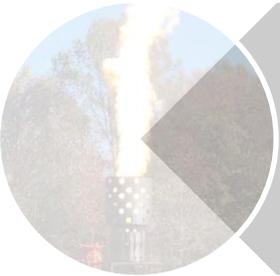
Main Research Areas

- Mechanical Cleanup
- Remote Sensing
- In situ Burning
- Shoreline Response
- Chemical Treatments
- Decision-making Tools





Preparedness
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Oil Spill Response
Research



Ohmsett
Management



National Oil Spill Response Research and Renewable Energy Test Facility

Dimensions

203 meters long
20 meters wide
2.4 meters deep

Volume

9.8 million liters



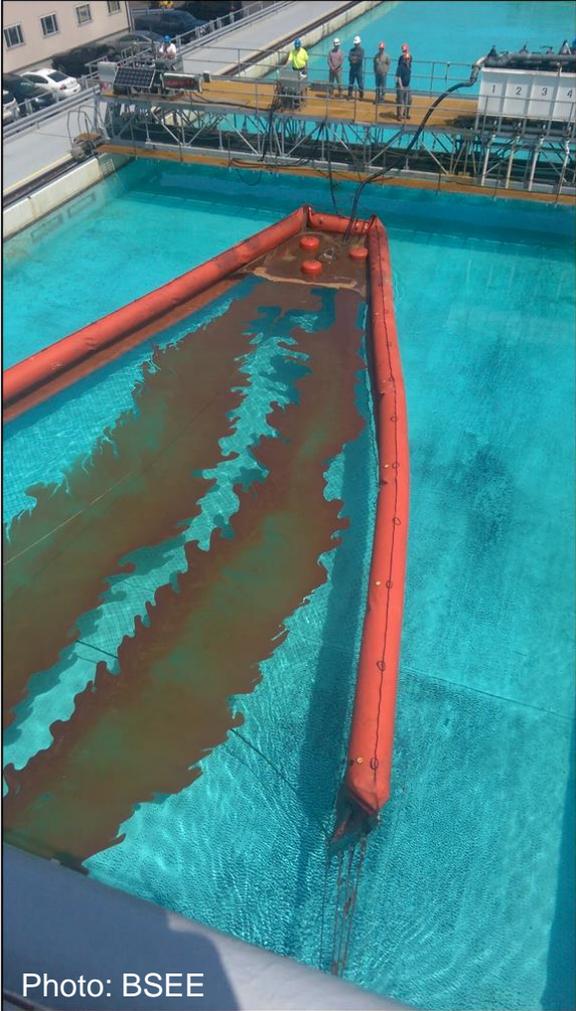
Photo: BSEE





Photo: BSEE

Ohmsett supports experiments, equipment testing and spill response training.



For more information visit:

<https://www.bsee.gov/what-we-do/oil-spill-preparedness>



Any Questions?

“To promote safety, protect the environment and conserve resources offshore through vigorous regulatory oversight and enforcement.”



BSEE Website: www.bsee.gov



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Environmental Enforcement**



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