

Spill Containment and Commerce



Executive Summary

- -What is Spill Containment, Secondary Containment and a Spill Prevention Plan
- -Marine Containment vs. Above-Ground Containment
- -Dangers of Spills, Costs, and Enforcement Agencies
- -Various types of Spill Containment Products and Spill Prevention Products
- -The future of Spill Containment





Origin and Purpose

- ► EPA Founded 1970: Enforce environmental and human health regulations
- Clean Water Act of 1973: Governs water pollution
- Clean Water Act sets forth the Oil Pollution Regulations
 - ▶ Subparts A, B, and C of the Oil Pollution Prevention Regulations are established
- 1990 Oil Pollution Act: Requires Facility Response Plans for some oil facilities.
 - Adds Subpart D to Oil Pollution Prevention Regulations

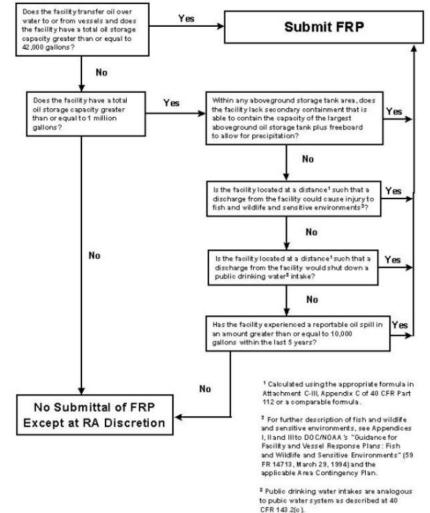




Oil Spill Prevention Regulation

- Subpart A: Sets forth requirements for all types of oil-related facilities
- Subpart B: Sets forth further requirements for petroleum and nonpetroleum oils besides Animal and Vegetable related Greases and Oils
- Subpart C: Sets forth further requirements for Animal and Vegetable related Greases and Oils
- Subpart D: Requires a Facility Response Plan for designated oil storage facilities
 - Plan for a worst-case scenario discharge. Must be approved by certified Engineer.

Flowchart of Criteria for Substantial Harm





Background Information

Spill Containment: Primary, Secondary, vs Spill Response

Benefits of Secondary Containment

Spill Prevention Plans: SPCC Plans and Facility Response Plans





Containment in the US

Congress passes laws to address human health and environmental issues.

Enforcement Agencies:

- Marine Containment: US Coast Guard regulates and enforces
- Land and Non-Coastal Waters: EPA regulates and enforces







EPA Enforcement Policy

- Fines for SPCC Violations
 - Enforced by States. Typically local Environmental Agencies or Fire Agencies

If a Spill Should Occur:

- Clean-up or pay for clean up efforts
- Possible Fine Based on severity and impact
- Civil Court If not willing to comply
- Judicial Court Only for serious violations. (Willfully or knowingly committed)





Floreffe, Pennsylvania Oil Spill of 1988

- ► A re-located 3.8-million-gallon storage tank collapsed
- > 750,000 gallons of fuel flowed into the Monongahela River
- Impacting thousands of local birds and fish
- Monongahela River and Ohio River water supply stopped to parts of Pennsylvania, Ohio, and West Virginia





Floreffe, PA 1988 Oil Spill Result

- Ashland Oil paid estimated \$37.1 million in damages, expenses, and civil penalties
- SPCC Task Force is formed and recommends changes
- ► Leads to the Oil Pollution Act of 1990 (Subpart D of Oil Pollution Prevention Regulation)
- Subpart D: Requires Facility Response Plans on top of SPCC Plans for certain Oil Facilities







Unmonitored Above Ground Storage Tank fails.







1,500 gallons of Motor Oil enters drain. Flows through a series of irrigation canals and drainages emptying into the Yakima River.















Historic Spills Costs

1989 EXXON Valdez: Estimated cost: \$3.5 billion





2010 Deepwater Horizon: Estimated cost \$42-\$54 billion



Dangers of Above-Ground Spills

- Erosion
- Soil Quality
- Explosion/Fires
- Public Safety
- Reaching Waterways
- Wildlife Implications







Above-Ground Storage Tank and Fuel Bladder Containment Products













www.containmentcorp.com (800) 235-7421





Vehicle Containment Products

















Drum Containment















www.containmentcorp.com (800) 235-7421







Spill Response Products





















Future of Spill Containment

any 12-month period.

- Continued growth in SPCC Enforcement
 - Growth in State's enforcement of regulations and their

agencies

Further amendments to the Oil Pollution Prevention

Regulation

- Dictated by growing concerns, Industry practices, and future incidents
- Growth in regulations and governance internationally

If the facility total aboveground oil storage capacity is 10,000 gallons or less

And... And the facility Then the facility is a: has... Tier I Qualified Facility: No individual Complete and self-certify Plan Within 3 years prior to the Plan aboveground oil template (Appendix G of SPCC certification date, or since containers rule) instead of a full PEbecoming subject to the SPCC certified Plan or other selfgreater than rule if in operation for less than certified SPCC Plan. 5,000 gallons; three years, the facility has not discharged oil in: A single discharge exceeding Tier II Qualified Facility: Any individual 1,000 gallons, or Prepare a self-certified Plan in aboveground oil Two discharges each accordance with all applicable container greater requirements of §112.7 and exceeding 42 gallons within than 5,000

gallons;

subparts B or C of the rule, in

lieu of a PE-certified Plan.



Future of Spill Containment Industry

- Innovative new spill containment and spill response products
- Overseas competition in the Spill Containment Products market
- Tightening of margins as the Spill Containment Product market place grows
- Growing need for Remediation Services
 - Emergency Response and SpillClean-Up Services







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