



# **Spill Prevention Plans & Regulatory Requirements**

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# **State and Federal Laws**

- **LDEQ Water Regulations**
  - Spill Prevention and Control (SPC)
  - Authorized Pursuant to LAC 33:IX.Chapter 9
- **U.S. EPA Code of Federal Regulations**
  - Spill Prevention, Control, and Countermeasure (SPCC)
  - Authorized Pursuant to 40 CFR Part 112; Oil Pollution Prevention



# SPC Regulations

## Purpose



- Establish Contingency Planning
- Implement Operating Procedures
- Require Best Management Practices (BMPs)
- Outline Response Actions
  - To prevent and control the discharge of pollutants resulting from spill events.





# SPC Plan Applicability



- LAC 33:IX. Chapter 9 applies to:
  - Oil of any kind and in any form (i.e. petroleum, fuel oil, sludge, oil refuse, etc)
  - All substances listed in LAC 33:I.3931 of the LDEQ Notification Regulations that are in liquid form.
- Minimum above ground storage capacity is 1320 US gallons for 2 or more individual containers in aggregate within common storage area.
- 660 gallons for an individual container.



# SPC Plan Requirements



- Plan must be prepared within 180 days of the facility beginning operations
- Fully implemented no later than 1 year after facility operations begin
- A final permit may contain a tighter schedule
- Plan is to be kept and maintained on site and not submitted to LDEQ unless requested
- Plan is to be reviewed and revised as necessary every three years



# SPC Plan Components



- Name of facility and operator of facility
- Mailing address and location of the facility
- Date and year of initial facility operation
- Description of facility with identity, amount, and location of applicable substances
- Corrective action (countermeasure) procedures
- A description and map showing direction of flow and location of nearest receiving waters





# **SPC Plan Containment and/or Diversion Structures**



- Dikes, berms, retaining walls
- Curbing, drip pans
- Culverts, gutters, sumps, other collection or drainage systems
- Weirs, booms, other barriers
- Spill diversion and retention ponds
- Sorbent and other response materials



# **SPC Containment Design Criteria**

- All storage tanks installations should be constructed so that a secondary means of containment is provided for the entire contents of the largest single tank and sufficient freeboard to allow for precipitation
- Diked areas should be sufficiently impervious to contain spills
- Drainage from area should be restrained by valves or other positive means to prevent spills or leakage.





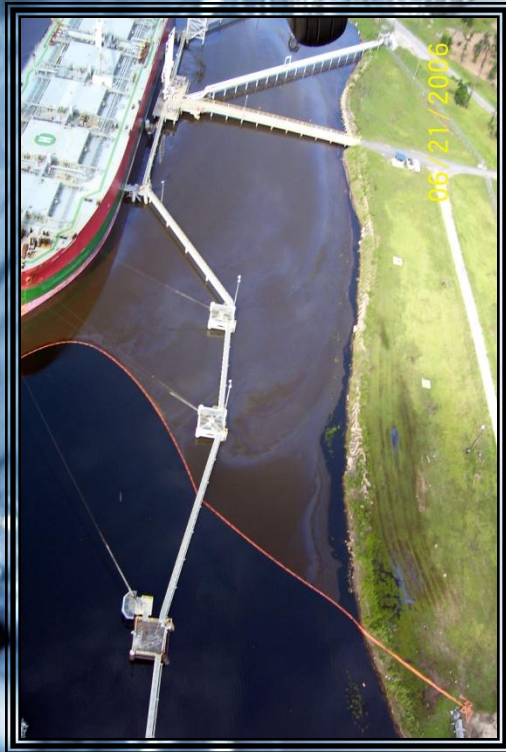
# SPC Plan Discussions



- The remainder of Chapter 9 is a “discussion of conformance”
- Personnel training, designated contact person, operator meetings
- Inspections and record keeping in writing as part of the working document
- And, what was once a minor discussion but a very important component; security in the form of restricting unauthorized entry: gates, fences, locks and lighting.



# **Spill Prevention, Control, & Countermeasure Plan -SPCC-**



- Authorized Pursuant to 40 CFR Part 112; Oil Pollution Prevention
- Administered by the United States Environmental Protection Agency (EPA)
- Several subtle differences from State (SPC) Regulations





# **Important Distinctions Between SPC & SPCC**



- Minimum applicable capacity for single tank is 1320 gallons
- Total Capacity applies to containers down to 55 gallons or more
- If total capacity is over 10,000 gallons (or if other stipulations apply), SPCC Plan must be certified by a Professional Engineer
- Required content of SPCC Plan is slightly different from SPC Plan
- New SPCC Rule amendments have altered compliance dates





# SPCC Plan Contents



- The SPCC Plan must clearly address the following:
  - Operating procedures to prevent oil spills
  - Control measures to prevent a spill from reaching navigable waters
  - Countermeasures to contain, clean up, and mitigate the effects of an oil spill that reaches navigable waters



# **Standard Elements of SPCC Plans**

- Discussion of facility's conformance with applicable SPCC requirements
- Explanation of regulatory applicability
- Description of the facility's physical layout and a facility diagram that indicates locations of oil storage and handling
- General facility description including name, function, and drainage patterns
- Description of oil storage and handling areas
- Discharge prevention measures including procedures for routine handling of products
- Designation of SPCC responsibilities, including a Spill Coordinator
- Description of spill events in the previous 12 months



# **Standard Elements of SPCC Plans, cont.**

- Analysis of potential spill scenarios, including prediction of directions, rate of flow, and total quantities that could be released
- Description of spill containment and drainage control structures and equipment for oil storage and handling facilities
- Description of spill emergency response equipment
- Description of spill notification procedures
- Oil Spill Contingency Plan describing spill response and cleanup procedures, including coordination with local authorities and spill response contractors





# **Standard Elements of SPCC Plans, cont.**

- Spill Prevention Plan, including inspection and monitoring program, tank integrity testing procedures, engineering controls to prevent overfills, preventative maintenance and housekeeping procedures, formal spill response training and exercises, and security measures
- Documented review and update of procedures every five years
- Professional Engineer (PE) certification, or self-certification if the facility qualifies
- Management approval



# **SPCC Rule Amendments**

- Amendments were made to the SPCC Rule over the last few years for several reasons:
  - Address a number of issues raised by the regulated community
  - Increase clarity
  - Tailor and streamline certain requirements
  - Facilitate compliance by owners and operators of a facility



# SPCC Rule

## Compliance Dates

### A facility starting operation...

### Must...

On or before August 16, 2002

- Maintain its existing SPCC Plan
- Amend and implement the SPCC Plan no later than **Nov. 10, 2010**

After August 16, 2002 through **Nov. 10, 2010**

- Prepare and implement the SPCC Plan no later than **Nov. 10, 2010**

After **Nov. 10, 2010**

- Prepare and implement a SPCC Plan **before beginning operations** \*

\* Owners or operators of new oil production facilities must prepare and implement an SPCC Plan six months after the start of operations.





# SPC/SPCC Plan BMP's

- Tank containment may be made of concrete, concrete blocks, impervious clay, steel, or any impervious material that will not react with the fuel or oil. (Asphalt will dissolve if diesel is spilled on it making an oily sheen.)
- Before the rainwater that accumulates in the containment area can be discharged, it must be inspected for a “visible sheen” (the rainbow appearance oil makes on water) or free product. If the rainwater looks clean, document the date, time, that it did not have a sheen or free product floating on it and discharge it. Keep that log book for state (LDEQ) and federal inspectors (EPA).



# SPC/SPCC Plan BMP's

- If the containment has a drain valve or bung for draining the storm water, it must be kept in the closed position at all times except when the storm water is being drained off. The draining of the storm water must be supervised at all times. Once the water is drained off, close and secure the valve or bung.
- The tanks should be fenced or secured in some way to prevent vandals. The containment area should be well lit so as to discourage vandals, and allow responders to be able to see a leak and not be standing in gasoline or other oil product.



# SPC/SPCC Plan BMP's

- Any spills or leaks from fueling or maintenance of equipment exposed to storm water must be cleaned up. Dry methods (kitty litter, absorbent pads, etc.) shall be used. The spilled material shall be properly disposed of after cleanup (usually goes to a drum or dumpster for disposal in an approved landfarm, or sanitary or industrial landfill).
- Employees must be trained at least once a year on spill control methods and the content of the SPC/SPCC plan. The training should include who to call if a spill occurs and what steps to take to stop and mitigate (cleanup) the spill. Records of the training and who attended is important.





# **Assistance with Plans & Understanding Regulations**

## **LDEQ Small Business/Small Community Assistance Program**

- Provide small business owners and small communities with **FREE** technical assistance in understanding and complying with environmental regulations.
- Regional, Multi-media, and Non-Enforcement
- Assist with developing and implementing SPC/SPCC Plans, as well as understanding regulatory applicability



# ***SB/SCAP Contact Information***

**HOTLINE:** 1-800-259-2890

**EMAIL:** [SBAP@la.gov](mailto:SBAP@la.gov)

**WEBSITE:** <http://www.deq.louisiana.gov/>



# **Speaker Contact Information**

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# Relevant SPCC Websites

40 CFR Part 112:

<http://ecfr.gpoaccess.gov/cgi/t/text/text-idx?c=ecfr&sid=22c1727100b482e3a5a3838622642afd&rgn=div5&view=text&node=40:21.0.1.1.7&idno=40>

EPA Oil Program:

<http://www.epa.gov/oilspill/>

Region 6 Outreach Guides:

<http://www.epa.gov/earth1r6/6sf/sfsites/oil/>

Tier I Qualified Facility SPCC Plan Templates:

<http://www.epa.gov/emergencies/content/spcc/tier1template.htm>



# QUESTIONS ???