









Management Strategies



 Consolidate efforts- Many of these plans have overlapping requirements and duplicate content. They often contradict each other because one or more is out of date. Be consistent to save time and integrate the work. Note: If you do integrate plans, check for specific requirements and have a table for each regulation which cross references each specific requirement and the content location by page number in the plan.

Copyright 2014 Smith Management Grou

ebruary 12, 2015 • 13

SMG

SMG

Management Strategies (cont.)

Review and update on a regular basis.
 Set a quarterly reminder to review upcoming projects and facility changes.
 Regulatory requirements are 5 years for a SPCC Plan and 3 years for a GPP. Plant

changes, however, often dictate changes

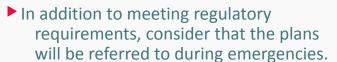
sooner. (Consider whether or not the change requires recertification.)

© Copyright 2014 Smith Management Group

February 12, 2015 *

SMG

Management Strategies (cont.)



- Present the information in a concise and easy to find way.
- Design the plans to be user-friendly for the facility employees – include facility terminology and get employee input.

© Copyright 2014 Smith Management Grou

February 12, 2015 • 15



GPP Compliance Steps

- ▶ 1. Determine applicability using definitions and reviewing specific listed activities
 - 2. Review exclusions
 - 3. Prepare your GPP
 - 4. Implement your GPP
 - 5. Review and revise your GPP as needed

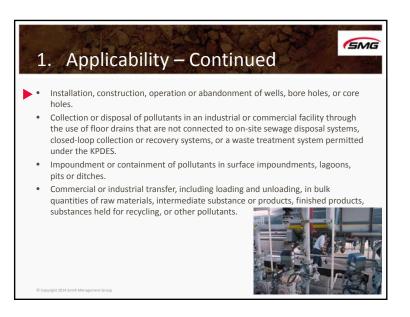
Copyright 2014 Smith Management Group

February 12, 2015 • :

SMG



1. Applicability — Continued • Commercial or industrial storing or related handling in bulk quantities of raw materials, intermediate substances or products, finished products, substances held for recycling, or other pollutants held in tanks, drums, or other containers or in piles. • Transmission in pipelines of raw materials, intermediate substances or products, finished products or other pollutants. • Installation or operation of on-site sewage disposal systems. • Storing or related handling of road oils, dust suppressants or deicing agents at a central location. Application of related handling of road oils, dust suppressants or deicing materials. • Mining and associated activities.



1. Applicability - Key Definitions

resource which may be discharged into water.

▶ Pollutant – defined by KRS 224.01-010(35) as dredged spoil, solid waste, incinerator residue, sewage, sewage sludge, garbage, chemical, biological or radioactive materials, heat, wrecked or discarded equipment, rock, sand, soil, industrial, municipal or agricultural waste, and any substance resulting

from the development, processing, or recovery of any natural

Bulk quantities - means undivided quantities of any substance equal to or greater than fifty-five (55) U. S. gallons liquid measure or 100 pounds net dry weight transported or held in an individual container.

© Copyright 2014 Smith Management Grou

February 12, 2015 • 21

SMG

2. Exclusions - See Section 2(3) and section 2(4) of the regulation

General Exclusions

Any person who conducts an activity identified in subsection (2) of this section shall not be required to prepare or to implement a Groundwater Protection Plan for that activity if that person can demonstrate by substantial evidence based on the factors set forth in this subsection, the activity has no reasonable potential of altering the physical, thermal, chemical, biological, or radioactive properties of the groundwater in a manner, condition, or quantity that will be detrimental to the public health or welfare, to animal or aquatic life, to the use of groundwater as present or future sources of public water supply or to the use of groundwater for recreational, commercial, industrial, agricultural, or other legitimate purposes.

© Copyright 2014 Smith Management Group

February 13, 2015 -

SMG

2. Exclusions (Continued)



Specific Exclusions

The provisions of this administrative regulation shall not apply to the following activities:

- (a) Normal use or consumption of products sized and packaged for personal use by individuals;
- (b) Retail marketing of products sized and packaged for personal use or consumption by individuals:
- (c) Activities conducted entirely inside enclosed buildings if:
- 1. The building has a floor sufficient to prevent the release of pollutants to groundwater; and
- There are no floor drains, or all floor drains within the building are connected to an on-site sewage disposal system, closed-loop collection or recovery system or a waste treatment system permitted under the Kentucky Pollutant Discharge Elimination System;
- (d) Storing, related handling, or transmission in pipelines of pollutants that are gases at standard temperature and pressure:
- (e) Storing municipal solid waste in a container located on property where the municipal solid
 waste is generated and which is used solely for the purpose of collection and temporary
 storage of that municipal solid waste prior to off-site disposal;
- (f) Installing and operating sewer lines or water lines approved by the cabinet

© Copyright 2014 Smith Management Group

February 12, 2015 • 23

2. Exclusions



Specific Exclusions (Continued)

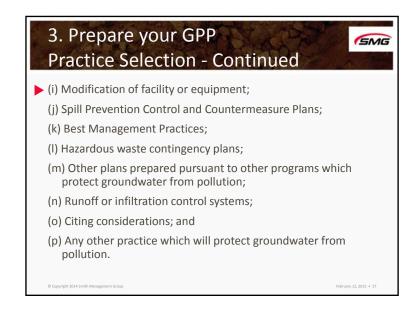
- (g) Storing water in ponds, lakes or reservoirs;
- (h) Impounding stormwater, silt, or sediment in surface impoundments;
- (i) Application of chloride-based deicing materials used on roads or parking lots;
- (j) Emergency response activities conducted in accordance with local, state, and federal law;
- (k) Fire fighting activities;
- (I) Conveyance or related handling by motor vehicle, rolling stock, vessel, or aircraft;
- (m) Agricultural activities at agriculture operations; or
- (n) Application by commercial applicators of fertilizers or pesticides on lands used for agriculture operations.

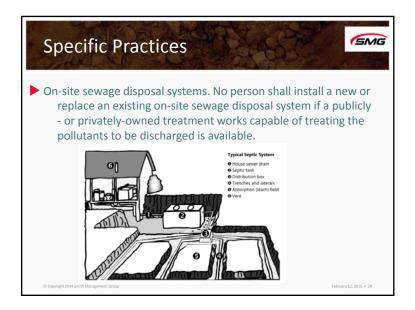
© Copyright 2014 Smith Management Group

February 12, 2015 * 24









Specific Practices - Floor drains

SMG

Any person using existing floor drains shall evaluate those floor drains to determine if they discharge to an on-site sewage disposal system, to a closed-loop collection or recovery system, or to a waste treatment system permitted under the Kentucky Pollutant Discharge Elimination System (KPDES).

If drains are identified which do not discharge to an on-site sewage disposal system, a closed-loop collection or recovery system, or a waste treatment system permitted under the KPDES, that person shall terminate the discharge or connect it to an on-site sewage disposal system, a closed-loop collection or recovery system, or a waste treatment system permitted under the KPDES.

No person shall install a floor drain unless it is connected to an on-site sewage disposal system, closed-loop collection or recovery system, or a waste treatment system permitted under the KPDES.

© Copyright 2014 Smith Management Grou

ebruary 12, 2015 • 29

Specific Practices - Loading and unloading areas



► Loading and unloading areas shall have spill prevention and control procedures and operation procedures designed to prevent groundwater pollution. Spill containment and cleanup equipment shall be readily accessible.



ment Greun February 12: 2015 •

Specific Practices



► Tanks and sumps

Any person using a tank or sump shall prepare and implement good housekeeping practices, operating procedures, operator training, and spill response procedures. In addition, any person using a tank or sump shall consider leak control devices, secondary containment, integrity testing, mechanical inspections, and overfill protection devices. Additional containment is not required for sumps and tanks that are used solely to provide secondary containment.

New surface impoundments, lagoons, pits or ditches

Any person who constructs a new surface impoundment, lagoon, pit or ditch which will contain a pollutant shall evaluate the site's hydrogeology and shall design and operate it to minimize discharges to soil.

© Copyright 2014 Smith Management Grou

February 12, 2015 * 31

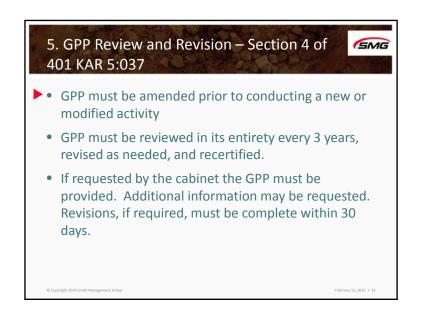
4. GPP Implementation – Section 4 of 401 KAR 5:037



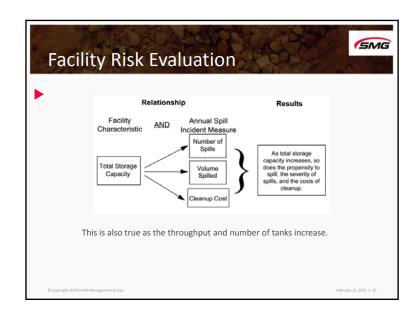
- GPP must be implemented "upon commencement of the regulated activity"
 - Implement practices for each activity listed in the GPP
 - Follow implementation schedule included in the GPP
 - Follow inspection schedule
 - Train personnel
 - Keep records 6 years
 - Keep GPP onsite

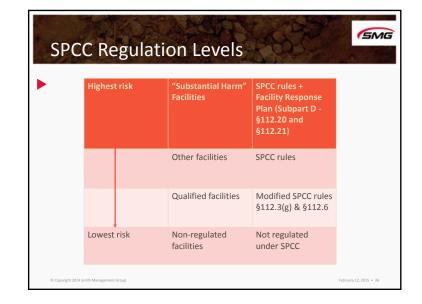


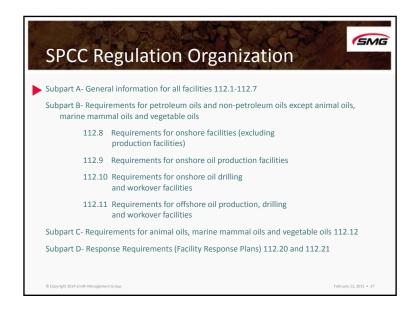
D Copyright 2014 Smith Management Gro





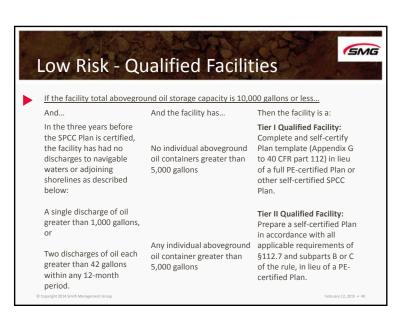






High Risk - Facility Response Plan Triggers SPCC-regulated facilities may also be subject to Facility Response Plan (FRP) requirements if they could reasonably be expected to cause "substantial harm" to the environment by discharging oil into or on navigable waters or adjoining shorelines. The determination of a "substantial harm" facility is made on the basis of meeting of the following criteria: 1. Has a total oil storage greater than or equal to 42,000 gallons and it transfers oil over water to/from vessels; or 2. Has a total oil storage capacity greater than or equal to one million gallons and meets one of the following conditions: 2. Does not have sufficient secondary containment for each aboveground storage area. 3. Is located at a distance such that a discharge from the facility could cause "injury" to fish, wildlife, and sensitive environments. 3. Is located at a distance such that a discharge from the facility would shut down a public drinking water intake. 4. Has had, within the past 5 years, a reportable discharge greater than or equal to 10,000 gallons.

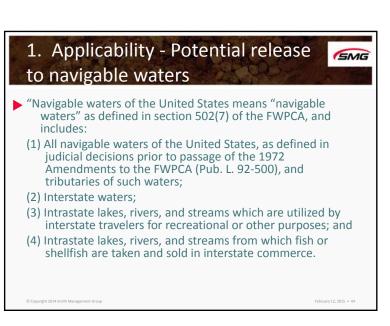












1 Applicability –Potential release in Harmful Quantities

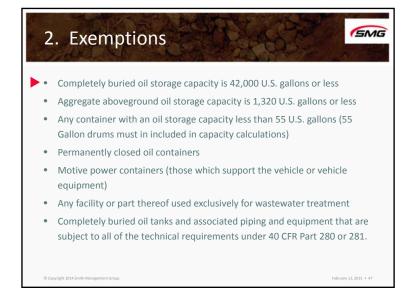
- ➤ The Discharge of Oil regulation at 40 CFR part 110 (also referred to as the "sheen rule") defines a discharge of oil into or upon the navigable waters of the United States or adjoining shorelines in quantities that may be harmful under the CWA as that which:
 - Causes a sheen or discoloration on the surface of the water or adjoining shorelines;
 - Causes a sludge or emulsion to be deposited beneath the surface of the water or upon adjoining shorelines; or
 - Violates an applicable water quality standard.

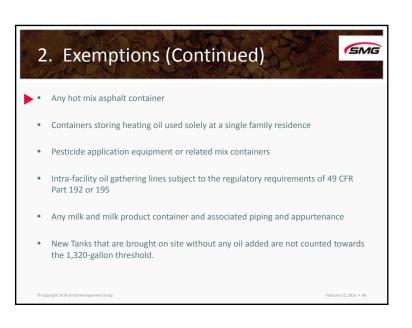
Note: A discharge meeting any of the above criteria triggers requirements to report to the National Response Center (NRC).

D Copyright 2014 Smith Management Group

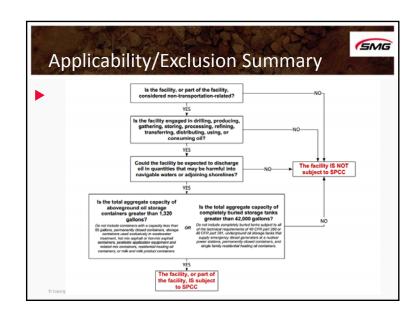
February 12, 2015 • 45

Watersheds and discharge in harmful quantities to navigable waters See EPA Office of Wetlands, Oceans & Watersheds Website for up to date information or EPA MyWATERS mapper. http://cfpub.epa.gov/surf/locate/index.cfm http://watersgeo.epa.gov/mwm/ You may not take into account manmade features, such as dikes, equipment, or other structures that might prevent, contain, hinder, or restrain the flow of oil. Assume these manmade features are not present when making your determination of whether or not a spill may harm navigable waters.





2. Exclusions - "Permanently Closed" SPCC rule exempts any oil storage container that is permanently closed. Permanently closed means any container or facility for which: All liquid and sludge has been removed from each container and connecting line; and All connecting lines and piping have been disconnected from the container and blanked off, all valves (except for ventilation valves) have been closed and locked, and conspicuous signs have been posted on each container stating that it is a permanently closed container and noting the date of closure. Definition of "permanently closed" does not require a container to be removed from a facility.

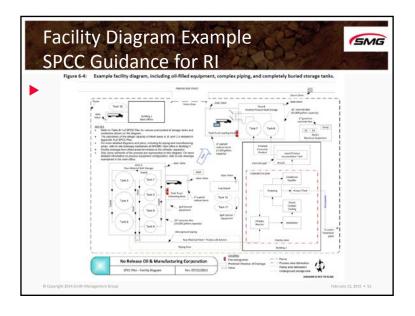




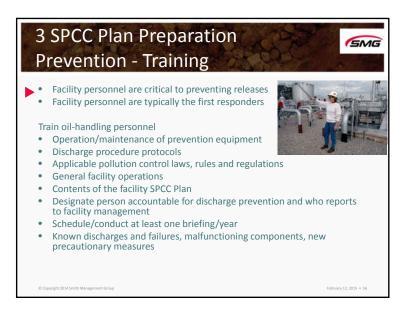


3 SPCC Plan Preparation Identify Spill Potential - Facility Diagram The following items are required by §112.7(a)(3): Aboveground storage tanks; Underground storage tanks. This includes those that are subject to the SPCC rule or those that are exempt; Storage area(s) where mobile or portable containers are located; Transfer stations such as oil transfer areas including loading/unloading racks and loading/unloading areas; Oil-filled equipment such as hydraulic operating systems or manufacturing equipment; Oil-filled electrical transformers, circuit breakers, or other equipment;

February 12, 2015 • 53



3 SPCC Plan Preparation Identify Spill Potential - Facility Diagram Connecting piping; Oil pits or ponds (at production facilities); Production facility stock tanks, separation equipment and produced water containers; Any other bulk storage or oil-filled operational equipment at a production facility; and Flow lines and intra-facility gathering lines at a production facility (including exempt intra-facility gathering lines). Note that the streamlined requirements for Tier I qualified facilities exclude the requirement for a facility diagram.



3 SPCC Plan Preparation Prevention – Maintenance Program



- SPCC rule requires a maintenance program, including written procedures and other measures to prevent corrosion or other conditions that could cause a discharge
 - The frequency and type of inspections and/or tests must allow for the implementation of the contingency plan. Any discharges, potential problems will be promptly discovered.
 - Scope and frequency of inspections, tests, and preventive maintenance must be established based on industry standards, manufacturer's recommendations, and other sources of good engineering practice.

© Copyright 2014 Smith Management Grou

February 12, 2015 • 57

3 SPCC Plan Preparation – Prevention – Inspection/Testing



- ➤ The SPCC rule has two distinct inspection requirements for bulk storage containers:
 - Test or inspect each container for integrity on a regular schedule and whenever material repairs are made; and
 - Frequently inspect the outside of the container for signs of deterioration, discharges, or accumulation of oil inside diked areas. This visual inspection is intended to be a routine walkaround and includes the container's supports and foundations.

C Copyright 2014 Smith Management Grou

February 12, 2015 *

3 SPCC Plan Preparation – Prevention – Inspection/Testing



- Integrity testing formal evaluation by qualified inspector:
- Determines whether the tank is suitable for continued use until the next formal inspection.
- Helps plan for routine maintenance and any associated repairs.

The frequency and type of testing and inspections, and qualifications for personnel performing tests and inspections, must be determined in accordance with applicable industry standards.

© Copyright 2014 Smith Management Grou

February 12, 2015 • 59

3 SPCC Plan Preparation – Prevention – Inspection/Testing



▶ If the SPCC Plan indicates the use of a standard to comply with a particular rule requirement (e.g., integrity testing), then it is mandatory to implement the relevant portions of the standard (i.e., those that address integrity testing of the container).

If the standard is more stringent than federal regulations (e.g., for recordkeeping retention requirements), the standard would take precedent.

Copyright 2014 Smith Management Group

ebruary 12, 2015 • 6

3 SPCC Plan Preparation Prevention – Inspection/Testing

If an owner/operator has yet to implement the integrity testing program, the SPCC Plan should establish and document a schedule that describes the projected implementation of the integrity testing program for the aboveground bulk storage containers at the facility.

The owner or operator must then implement the inspection program, in accordance with industry standards

- Establish appropriate inspection priorities among multiple containers at a facility
- Higher priority containers may be targeted for inspection before other aboveground containers where the baseline information is known

D Copyright 2014 Smith Management Group

February 12, 2015 • 61

SMG

