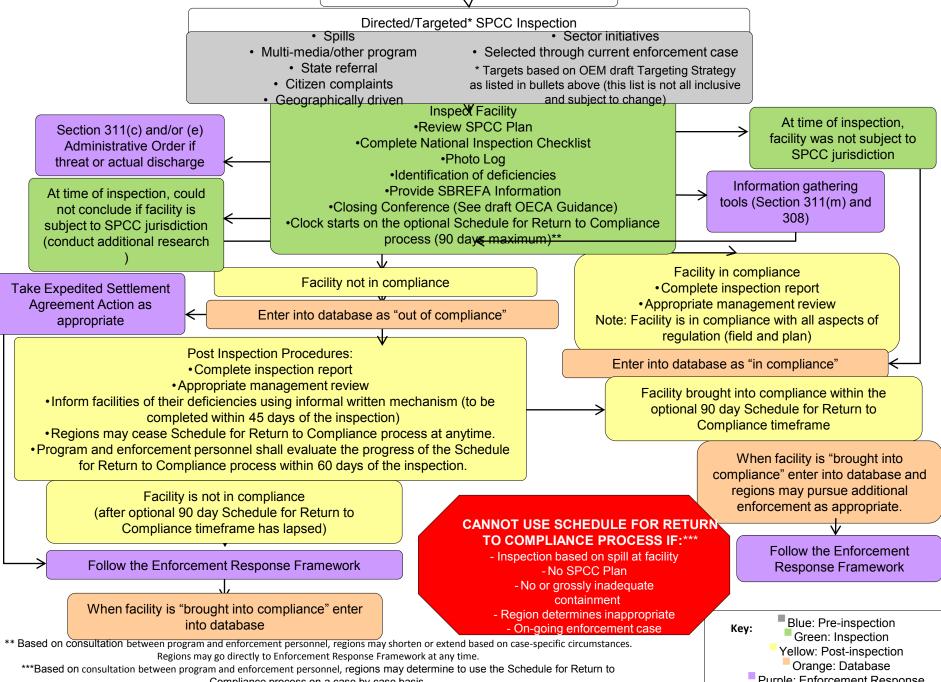
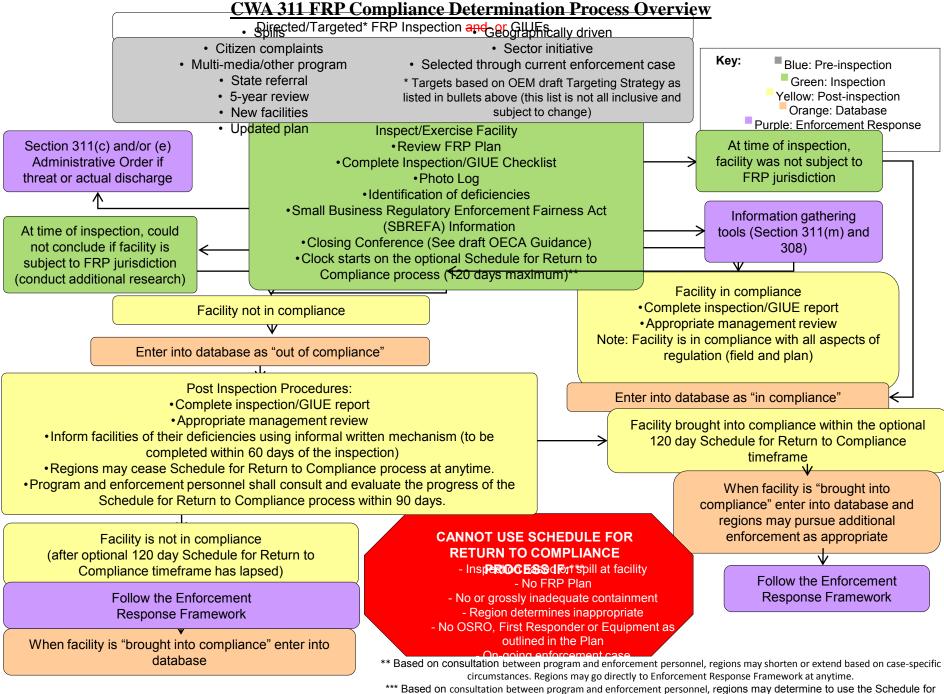
Spill Prevention, Control and Countermeasures (SPCC) 40 CFR 112

For Bulk Facilities

CWA 311 SPCC Compliance Determination Process Overview Optional/Outreach SPCC Wo



Compliance process on a case by case basis



Return to Compliance process on a case by case basis.



Do you have an oil?

- The list of Petroleum and Non-petroleum oils subject to the Clean Water Act requirements can be found at "http://www.uscg.mil/vrp/faq/oil.shtml"
- Oils include: gasoline, non-petroleum oils, asphalt, hexane, jet fuel, mineral spirits, edible and nonedible animal and vegetable oils, coal tar, creosote, lube oil additives, tallow, polyolefins, ethyl cyclohexane, turpentine,.....



SPCC Applicability (112.1)

- Non-Transportation-Related Facility engaged in:
- **Drilling, producing, gathering, storing,** processing, refining, transferring, distributing, using, or consuming
- Oil of any kind (petroleum, vegetable, animal, synthetic)
- in:
 - Total aboveground storage capacity >1,320 gallons counting only containers 55 gallons and greater; and/or
 - Total underground capacity > 42,000 gallons not including capacity of buried tanks covered in 40 CFR part 280 or 281
 - Exempts wastewater treatment facilities

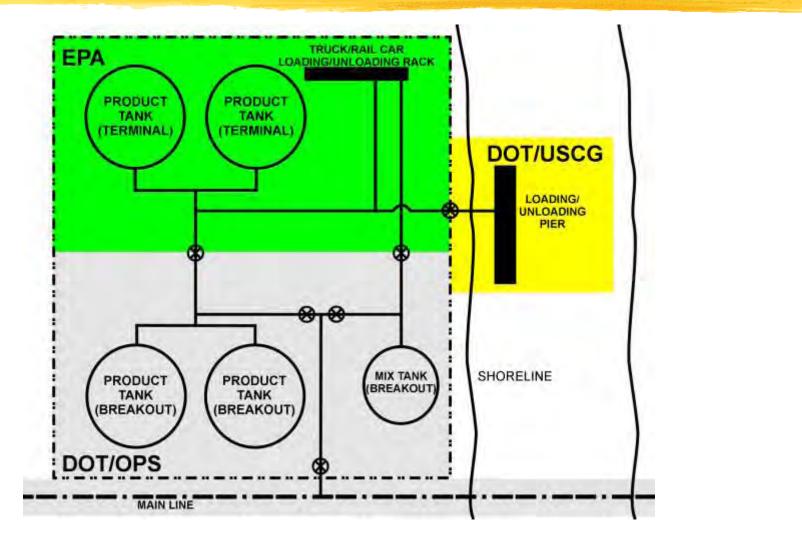


SPCC Applicability (112.1) continued

- A discharge of oil from the facility could reasonably be expected to reach waters of the U.S.,
- Dikes, equipment, and other manmade structures are not considered as reasons that oil would not be expected to reach waters of the U.S.,
- Examples of waters of the U.S. may include: lakes, rivers, streams, dry creek beds, ditches, wetlands, and tributaries to these.



OPA Jurisdiction of Federal Agencies





SPCC Requirements for Preparation and Implementation (112.3) continued,

- Professional Engineer (PE) must certify:
 - Is familiar with the rule
 - PE or agent has visited and examined the facility
 - Plan is prepared in accordance with good engineering practice (considering applicable industry standards) and with the rule
 - Testing and inspection procedures are established
 - The plan is adequate for the facility



General Requirements for Preparation and Implementation [112.7(a)]

- Plan must be signed by owner/operator,
- Plan must follow the sequence of the rule (112.7) or cross reference,
- Equivalent environmental protection
- Must have detailed facility diagram
- Describe prevention and countermeasures
 - Type of oil and capacity of each container
 - Prevention measures provided for all oil handling and storage
 - Discharge or drainage controls
 - Countermeasures, disposal, and reporting a discharge



General Requirements for Preparation and Implementation [112.7(b-c)]

- Plan must have a spill prediction section describing what would be a likely cause of a spill and where it would flow,
- Plan must describe what containment is used such as:
 - Dikes or berms that are sufficiently impervious to contain spilled oil until it is cleaned up,
 - Curbing, culverting, gutters or other drainage,
 - Weirs, booms or other barriers,
 - Spill diversion or retention ponds.



Inspection, tests and Records [112.7(e)]

- Records must be made according to the frequency and procedures that the facility establishes in the SPCC plan,
- Sign and keep with the plan for 3 years,
- Records must include:
 - Tank, piping, valve inspections and testing,
 - Water drained from dikes,
 - SPCC plan 5 year review,



Bulk Storage Tank Requirements [112.8(c)]

- Tank's material must be compatible with the oil stored and conditions of storage,
- Secondary containment must:
 - Hold the entire contents of the largest tank,
 - Plus sufficient freeboard for rainfall,
 - Be sufficiently impervious to hold a spill until it can be detected and cleaned up,
 - Be free of vegetation that would compromise imperviousness and inhibit inspections,











FRP/SPCC

Deficiencies





Problems commonly found in Facility Response Plans (FRPs)



Common FRP Problems General Information

- Name of protected waterway or environmentally sensitive area omitted
- Number of underground storage tanks (USTs), UST oil storage or drums/small container storage omitted
- Facility's status with respect to the significant and substantial harm criteria not stated



Common FRP Problems Worst Case Discharge Planning

 Worksheet to Plan Volume of Response Resources for Worst Case Discharge not completed [40 CFR 112, Attachment E-1 / E-2]



Common FRP Problems Introductory Materials

 Inadequate cross reference sheet and table of contents





Common FRP Problems ERAP

- ERAP not provided as a separate section in the front of the Response Plan, or as a separate document accompanying the Plan
- Qualified individual's response training experience not described
- Notification list items missing
 - Wastewater treatment facility(s) name and phone number (recommended)
 - Factories/utilities with water intakes
 - Trustees of sensitive areas (recommended)
 - Wrong U.S. EPA region duty officer phone number



Common FRP Problems Response Equipment

- Facility failed to have, or to document, the availability of 1,000 feet of boom, deployable within one hour
 - For example, facility relies on an Oil Spill Removal Organization (OSRO) for a boom, but OSRO response time is greater than one hour
- List of response equipment to be provided by an OSRO is not stated
- Response Equipment Testing and Deployment Drill Log is inadequate or incomplete



Common FRP Problems Personnel

Inadequate or incomplete information:

- Emergency response personnel information
 - Type and date of response training
- Emergency response contractor information
 - Response time
 - Evidence of current contractual arrangements
- Facility response team information
 - Response time
 - Name of emergency response contractor, response time, phone/pager



Common FRP Problems Evacuation Plans

Items missing or inadequately addressed, e.g.:

- Location of stored materials
- Hazard imposed by spilled materials
- Spill flow direction
- Prevailing wind directions and speed
- Water currents, tides, or wave conditions
- Arrival route of emergency response personnel and equipment

- Alternate evacuation routes
- Transportation of injured personnel to medical facility
- Location of alarm/ notification systems
- Mitigation command center location
- Facility shelter location
- Community evacuation plans referenced



Common FRP Problems Hazard Evaluation

Items missing or inadequately addressed, e.g.:

- Information provided on surface impoundments
 - If a facility has no surface impoundments, it should be so stated
- Labeled schematic drawings
- Secondary containment volumes



Common FRP Problems Vulnerability Analysis

Analysis of potential effects on the following resources is missing:

- Schools
- Medical facilities
- Residential areas
- Businesses

- Endangered flora & fauna
- Recreational areas
- Transportation routes





Common FRP Problems Oil Spill Potential Analysis

Items missing or inadequately addressed, e.g.:

- Horizontal range of potential spill
- Vulnerability to natural disaster (earthquake zones)
 - Tank age

• Other factors (unstable soils, karst topography, etc.)



Common FRP Problems Reportable Oil Spill History

Items missing or inadequately addressed, e.g.:

- Amount that reached navigable waters
- Effectiveness and capacity of secondary containment
- Steps taken to reduce possibility of reoccurrence

- Total oil storage capacity of tank(s) from which material discharged
- Enforcement actions
- Effectiveness of monitoring equipment
- Spill detection

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Common FRP Problems Discharge Detection Systems

- Discharge detection by personnel
 - Description of initial response actions
 - Emergency response information
- Automated discharge detection
 - Description of automatic spill detection equipment (overfill alarms, secondary containment sensors)
 - Description of alarm verification procedures and subsequent actions



Common FRP Problems Discharge Detection Systems

- Discharge detection by personnel
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 - Description of alarm verification procedures and subsequent actions



Common FRP Problems Containment and Drainage Planning

Items missing or inadequately addressed, e.g.:

- Containment volume
- Construction materials in drainage troughs
- Type and number of valves and separators in drainage system
- Sump pump capacities
- Containment capacities



Common FRP Problems Diagrams

Site Plan Diagram - Items missing or inadequately addressed, e.g.:

- Correct scale
- Contents and capacities of bulk oil storage tanks and drums
- Location and capacity of secondary containment



- Website: <u>www.epa.gov/oilspill</u>
- National Hotline: 1-800-424-9346
- Regional Contacts: Donald P Smith – <u>smith.donaldp@epa.gov</u> 214-665-6489