Port of Portland – Terminal 2

P.O. Box 3529
Portland, Oregon 97208-3529
503-460-4685

Spill Prevention, Control, and Countermeasure Plan

July 2014

Prepared by

Kennedy/Jenks Consultants
32001 32nd Avenue South, Suite 100
Federal Way, Washington 98001
(253) 835-6400

K/J Project No. 1192009.06

SPILL PREVENTION CONTROL AND COUNTERMEASURE (SPCC) PLAN

SUMMARY OF SPCC REQUIREMENTS

⇒ Requirements and Frequency

Facility Inspection	Monthly
Training (and Personnel Training Log)	Annually
Review and evaluation of SPCC Plan (Documentation of the review and evaluation required)	At least once every 5 years
Recertification of SPCC Plan	Within 6 months of the review

⇒ When do you need to modify this SPCC Plan

- When there is a change in facility design, construction, operation, or maintenance that materially affects the facility's potential for the discharge of oil. Major modifications require recertification by a professional engineer.

⇒ You may also need to modify this SPCC Plan when

- The facility has discharged more than 1,000 gallons of oil into or upon the navigable waters of the United States or adjoining shoreline or into or upon the waters of the contiguous zone, or in connection with activities under the Outer Continental Shelf Lands Act or the Deepwater Port Act of 1974, or that may affect natural resources belonging to, appertaining to, or under the exclusive management authority of the United States (including resources under the Magnuson Fishery Conservation and Management Act) in a single discharge).

- The facility has discharged more than 42 U.S. gallons of oil in two separate discharges (as described above) occurring within any 12-month period.

Note: Minor modifications to the SPCC Plan, for example, telephone number changes, emergency contact personnel changes, etc., can be made without requiring recertification from professional engineer.

⇒ What records do you need to keep

- Facility Inspection Form
- Personnel Training Roster
- 5-Year Review and Evaluation Documentation
- Record of Integrity Testing

Blank forms are included in Appendix C of this SPCC Plan. Completed forms will be filed in Appendix D of the Master Copy of this SPCC Plan, which will be kept on file in the office of the Marine Environmental Projects Manager.

Plan Amendment Log
Port of Portland Terminal 2 Facility

This page is designed to track the major and minor changes to the facility SPCC. Any changes should be made by the Marine Environmental Project Manager. Minor changes can be included either on this page or by replacement of the applicable pages within the SPCC Plan.

Addition of tanks or changes to the tanks or tank locations will require recertification of the SPCC Plan by the Professional Engineer.

Date Amended	Individual Making Changes	Pages Replaced	Summary of Change to SPCC Plan

SPILL PREVENTION CONTROL AND COUNTERMEASURE (SPCC) PLAN

Prepared for

PORT OF PORTLAND
Terminal 2
Portland, Oregon

Prepared by

KENNEDY/JENKS CONSULTANTS
ENGINEERS AND SCIENTISTS
32001 32nd Avenue, Suite 100
Federal Way, Washington 98001
(253) 835-6400

K/J 1192009.06

July 2014

PORT OF PORTLAND TERMINAL 2

SPILL PREVENTION CONTROL AND COUNTERMEASURE (SPCC) PLAN

NAME OF FACILITY Terminal 2, Port of Portland

TYPE OF FACILITY Marine transportation facility

LOCATION OF FACILITY

3556 NW Front Avenue
Portland, Oregon 97210-1315

NAME AND ADDRESS OF OWNER OR OPERATOR

Port of Portland
P.O. Box 3529
Portland, Oregon 97208-3529

FACILITY RESPONSE PLAN PREPARED FOR THIS FACILITY No

Designated person accountable for oil spill prevention at facility:

Name: Richard Vincent
Title: Marine Environmental Project Manager
Telephone Number: (503) 460-4685

MANAGEMENT APPROVAL

This SPCC Plan will be implemented as herein described.

Signature: _____ Date: 7/18/2014

Name: JEFF KRUG

Title: TERMINAL MANAGER

CERTIFICATION

I hereby certify that I or my agent have examined the facility, and being familiar with the provisions of 40 CFR Part 112, attest that this SPCC Plan has been prepared in accordance with good engineering practices, including consideration of applicable industry standards and with the requirements of Part 112. Furthermore, I certify that procedures for required inspection and testing have been established. The SPCC Plan is adequate for this facility.

_____ 7/7/14
Signature of Professional Engineer Date

Daniel T. Schultz
Name of Professional Engineer

39909 Washington
Registration No. State

SPILL RESPONSE/EMERGENCY CONTACTS
PORT OF PORTLAND TERMINAL 2 FACILITY

PLEASE REFER TO THE FOLLOWING PROCEDURES WHEN HANDLING A SPILL INCIDENT.

*** * * * * * * * * * THINK C-C-C* * * * * * * * * CONTROL-CONTAIN-CALL* * * * * * * ***

#1 CONTROL the source of the spill. STOP the flow.

#2 CONTAIN the spill to the smallest possible area.

#3 CALL your supervisor for further instructions.

The following are the phone numbers of supervisors to contact in the event of a spill:

Regardless of the time of the day.

EMERGENCY NOTIFICATION PHONE LIST		
PRIORITIZED CONTACT LIST	**RESPONSIBLE ROLE**	**PHONE NUMBER**
PORT CONTACTS		
Primary Emergency Coordinator: Marine Security Group	Incident Command and Control	(503) 240-2230
Secondary Emergency Coordinator: Richard Vincent	Assist with Incident Command and Control	(503) 415-6236 (office) (503) 528-6553 (mobile)
EMERGENCY RESPONSE CONTRACTORS		
Cowlitz Clean Sweep	Provide Spill Response and Cleanup Resources	(503) 247-9466 (888) 423-6316
NRC Environmental Emergency Spill Response	Provide Spill Response and Cleanup Resources	(800) 337-7455
Belfor Environmental Services	Provide Spill Response and Cleanup Resources	(800) 930-0011
Terra Hydr, Inc.	Provide Spill Response and Cleanup Resources	(503) 625-4000
IF A SPILL REACHES STATE'S WATER OR HAS THE POTENTIAL TO REACH THE STATE'S WATER, OR IF IN EXCESS OF 42 GALLONS, YOU MUST CALL: (Spill reporting must be made as soon as possible after initial spill response and control)		
GOVERNMENT AGENCIES (Record name of person called and time of call)		
Fire/Police – Portland HAZMAT Team Time:_____ Name:_____	Assist in spill clean-up and fire control	911 and/or (503) 823-3946
National Response Center (NRC) Time:_____ Name:_____	Incident Reporting: If spill exceeds CERCLA Federal Response Quantity	(800) 424-8802
Oregon Emergency Response System (OERS) Time:_____ Name:_____	Incident Reporting Provide Spill Response Assistance	(800) 452-0311
Oregon Department of Environmental Quality Time:_____ Name:_____	Incident Reporting Provide Spill Response Assistance	(800) 542-4011
U.S. Coast Guard Time:_____ Name:_____	Incident Reporting	(503) 240-9370
EPA Office Time:_____ Name:_____	Incident Reporting	(206) 553-1263

In addition, record the name of the control officer, time, and details of the conversation on the Spill Response Notification Form in Appendix C.

APPLICABILITY OF SUBSTANTIAL HARM CRITERIA

Facility Name: Terminal 2
Facility Address: 3556 Northwest Front Avenue, Portland, Oregon 97210-1315

1. Does the facility transfer oil over-water to or from vessels and does the facility have a total oil storage capacity greater than or equal to 42,000 gallons?

   ___ Yes _X_ No

2. Does the facility have a total oil storage capacity greater than or equal to 1 million gallons and, within any storage area, does the facility lack secondary containment that is sufficiently large to contain the capacity of the largest aboveground oil storage tank plus sufficient freeboard to allow for precipitation?

   ___ Yes _X_ No

3. Does the facility have a total oil storage capacity greater than or equal to 1 million gallons and is the facility located at a distance (as calculated using the appropriate formula in Appendix C of 40 CFR Part 112 or a comparable formula) such that a discharge from the facility could cause injury to fish and wildlife and sensitive environments?

   ___ Yes _X_ No

4. Does the facility have a total oil storage capacity greater than or equal to 1 million gallons and is the facility located at a distance (as calculated using the appropriate formula in Appendix C of 40 CFR Part 112 or a comparable formula) such that a discharge from the facility would shut down a public drinking water intake?

   ___ Yes _X_ No

5. Does the facility have a total oil storage capacity greater than or equal to 1 million gallons and has the facility experienced a reportable oil spill in an amount greater than or equal to 10,000 gallons within the last 5 years?

   ___ Yes _X_ No

CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document, and that based on my inquiry of those individuals responsible for obtaining information, I believe that the submitted information is true, accurate, and complete.

Signature: _____

Name (please type or print): Daniel Pippenger

Title: Chief Operating Officer, Acting

Date: 8/14/14

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Section 1: Facility Physical Layout

This Spill Prevention Control and Countermeasure (SPCC) Plan has been prepared in accordance with the requirements of the SPCC regulations in 40 CFR 112.

This SPCC Plan will be amended whenever there is a change in facility design, construction, operation, or maintenance that materially affects the facility's potential for the discharge of oil into or upon the waters of the United States or adjoining shorelines or into or upon the water of the contiguous zone, or in connection with activities under the Outer Continental Shelf Lands Act or the Deepwater Port Act of 1974, or that may affect natural resources belonging to, appertaining to, or under the exclusive management authority of the United States (including resources under the Magnuson Fishery Conservation and Management Act).

1.1 Facility Physical Layout [40 CFR 112.7(a)(3)]

The Port of Portland (Port), Terminal 2 Facility is a marine transportation facility used for marine cargo handling. The site consists of an office building, cargo staging and storage areas, a low dock area, two high berth areas, and three warehouses. The facility address is 3556 Northwest Front Avenue; Portland, Oregon 97210. A site vicinity map is provided as Figure 1, and a facility site map is provided as Figure 2.

1.1.1 Type of Oil and Capacity [40 CFR 112.7(a)(3)(i)]

The type of oil stored in each bulk storage container onsite and its storage capacity is provided in Table 1. Bulk storage containers are further described in Section 11.2.

Eight transformers, each containing between 100 and 300 gallons of non-polychlorinated biphenyl (PCB) transformer oil, are located onsite. Secondary containment in the form of a concrete berm is provided for each of the transformers. The spill control measures and the Spill Contingency Plan would be implemented in the event of a discharge. The Port has committed to the necessary personnel, equipment, and materials to address spills from the transformers in accordance with the management approval signature on the Certification page of this SPCC Plan.

Inspections and monitoring of the equipment is conducted in accordance with Section 5.0.

1.1.2 Discharge Preventive Measures [40 CFR 112.7(a)(3)(ii)]

The discharge preventive measures applicable for the facility, including procedures for routine handling of products, are provided in Appendix A.

1.1.3 Discharge/Drainage Controls [40 CFR 112.7(a)(3)(iii)]

The discharge/drainage controls for each container are discussed in Section 11.2. Facility drainage controls are discussed in Section 11.1.

1.1.4 Countermeasures [40 CFR 112.7(a)(3)(iv)]

Countermeasure procedures for the facility are presented in Appendix B. In addition, the Port has contracted with response contractors listed on page v at the front of this SPCC Plan to provide spill response and cleanup for this facility.

1.1.5 Methods of Disposal [40 CFR 112.7(a)(3)(v)]

Typical disposal methods that may be employed at the facility are listed below.

- Recovered product is pumped to a slop oil tank or container and stored onsite and, if possible, reused. If this is not possible, spilled oil or fuel may be hauled to an offsite recycler or disposal site.
- Contaminated soil is stockpiled and protected onsite for subsequent disposal at appropriate facilities.
- Contaminated equipment and materials, including drums, tanks, parts, valves, and shovels, are cleaned as appropriate and residues collected.
- Personal protective equipment, decontamination solutions, spent chemicals, and sorbents are drummed and stored as appropriate for disposal.

Actual disposal methods will depend on the volume of the release and its condition. The response contractor will transport contaminated material from the site for proper disposal. Spilled residues and other materials contaminated by spilled oil will be characterized using applicable Material Safety Data Sheets, laboratory analyses, or other available information as appropriate. Following characterization, these residues and materials will be disposed offsite in a manner consistent with applicable regulations (Resource Conservation and Recovery Act, Oil Pollution Act, and others).

1.1.6 Contact List [40 CFR 112.7(a)(3)(vi)]

The contact list and telephone numbers for those individuals/agencies that must be contacted in case of a discharge are provided on page v of this SPCC Plan. The Port has contracted with response contractors identified on the table on page v at the front of this SPCC Plan to provide oil spill response and cleanup for this facility.

1.2 Discharge Reporting [40 CFR 112.7(a)(4)]

In the event of a discharge, Port personnel are instructed to contact the personnel listed on page v of this SPCC Plan. A Spill Response Notification Form (provided behind Appendix C) is provided to document spill response activities or as an example of the information that should be collected and reported.

1.3 Discharge Procedures [40 CFR 112.7(a)(5)]

In the event of a discharge, procedures outlined in the Spill Contingency Plan, provided in Appendix B, will be followed.

Section 2: Potential Discharges [40 CFR 112.7(b)]

The expected modes of potential major failure or accident in which oil could be discharged from the facility are as follows:

- Storage container leak or failure. The maximum quantity of oil discharged is based on the capacity of the largest aboveground storage container at the facility.
  - Rate of flow. The rate of flow varies depending on the size and location of tank failure.
  - Total quantity of oil discharged. The total quantity would not exceed the shell capacity of the largest container, which is 290 gallons (Transformer MT2-089).
  - Direction of flow. Discharges or leaks of oil from the 290-gallon transformer, which is located near the low dock office building in the northwestern portion of the facility, would be contained within the pervious area inside the secondary containment berm. If the containment for this transformer leaked or was breached, oil would flow toward the storm drain catch basin to the east. Discharges or leaks from the other transformers would likely remain within the curbed areas or would flow across the pavement toward catch basins.

- Container overflow or leak or failure during filling.
  - Rate of flow. The rate of flow depends on the delivery system and pumping capacity.
  - Total quantity of oil discharged. The total quantity of product could be up to the largest container volume onsite, 290 gallons.
  - Direction of flow. The direction of flow would be as described above.

Section 3: Containment and Diversionary Structures [40 CFR 112.7(c)]

The secondary containment/diversionary structures for oil storage containers onsite are listed in Table 1 and described in Sections 11.2.2 and 8.0. A discharge outside of containment areas would generally be contained within the facility property and require implementation of additional cleanup measures. A contingency plan, which has been prepared in general accordance with 40 CFR Part 109, is included as Appendix B. Spill control material (e.g., sorbent pads) is available at the facility (as presented in Appendix B).

Section 4: Demonstration of Impracticability [40 CFR 112.7(d)]

Not applicable.

Section 5: Inspections, Testing, and Records [40 CFR 112.7(e)]

Inspections and tests required in this SPCC Plan are conducted in accordance with written procedures developed for this facility. Written procedures for inspections of containers are provided on the Facility Inspection Form provided in Appendix C of this SPCC Plan.

In addition, the following forms/records are included with this SPCC Plan:

- Spill Response Notification Forms
- SPCC Training Rosters.

The written procedures and completed forms/records of the inspections and tests, signed by the appropriate supervisor or inspector, are to be kept with the SPCC Plan and retained for at least 3 years. Additional information regarding inspections and tests is provided in Section 11.2.6.

Section 6: Personnel, Training, and Discharge Prevention Procedures [40 CFR 112.7(f)]

The facility has a designated person who is accountable for discharge prevention and who reports to facility management as indicated on the SPCC Plan cover sheet.

Facility personnel are properly instructed in the operation and maintenance of equipment to prevent oil discharges; discharge procedures; and applicable pollution control laws, rules, and regulations. Personnel operating the facility are instructed regarding their job responsibilities and duties. Personnel are under the direct supervision of a foreman who is responsible for establishing daily performance and duty guidelines.

Periodic safety meetings are held to discuss safety procedures and other pertinent job responsibility criteria. In addition, SPCC training/discharge prevention briefings for oil-handling personnel are conducted, as required, at least once a year. This training covers the content of the SPCC Plan, known discharge events or failures, malfunctioning components, and recently developed precautionary measures. Blank Training Rosters are included in Appendix C of this SPCC Plan. SPCC training documentation will be kept on file at the Port of Portland Headquarters in the office of the Marine Environmental Project Manager and retained for at least 3 years.

Section 7: Security [40 CFR 112.7(g)]

The facility is equipped with the security measures presented below.

- The facility is sufficiently illuminated so that discharges, releases, or acts of vandalism can be discovered during hours of darkness.
- Unauthorized personnel are not allowed onsite.
- The site perimeter is fenced, and the facility is locked after business hours.

Section 8: Facility Tank Car and Truck Loading/Offloading Rack Procedures [40 CFR 112.7(h)]

This facility is not equipped with a loading/offloading rack.

Section 9: Brittle Fracture [40 CFR 112.7(i)]

No field-constructed aboveground containers are in place at this facility.

Section 10: Conformance with Applicable Requirements [40 CFR 112.7(j)]

Conformance with the applicable requirements of 40 CFR 112 is addressed in Sections 11.0 through 11.3 of this SPCC Plan.

Section 11: Requirements for Onshore Facilities [40 CFR 112.8]

The general requirements for onshore facilities are discussed in the sections below.

11.1 Facility Drainage [40 CFR 112.8(b)]

Terminal 2 is divided into two drainage basins (Basin A and Basin B). With the exception of the docks on the northern and eastern borders of the site, stormwater runoff from Terminal 2 is collected in catch basins and conveyed to the Willamette River by two main storm lines, one from each basin. Basin A comprises the northwestern portion of the property and drains by Outfall A to the Willamette River via a 27-inch-diameter corrugated metal storm drain. The remaining southeastern portion of the property, Basin B, drains by a 36-inch corrugated metal storm drain to the Willamette River via Outfall B. The dock areas along the northern and eastern boundaries of the site are supported by piers directly above the Willamette River. These docks contain numerous scupper and rail drains, through which stormwater runoff drains directly to the Willamette River. Transformers MT2-087, MT2-088, MT2-089, MT2-090, and MT2-094 are all located in small pervious areas with concrete curbs, so stormwater in these locations infiltrates into the ground prior to any sheet flow occurring to surrounding areas within the Terminal 2 facility. The hydraulic oil reservoir for the elevator is located inside the Terminal 2 administration building, which drains to the City of Portland sanitary sewer.

11.2 Bulk Storage Containers [40 CFR 112.8(c)]

11.2.1 Construction of and Materials Used for Containers [40 CFR 112.8(c)(1)]

There are no bulk oil storage containers located at this facility. The oil containing equipment located at this facility is identified in Table 1. This table includes the size, storage content, material of construction, alarm systems, containment/diversionary structure and size of each applicable container onsite. The locations of the containers are shown on Figure 2.

All container shells and bottoms reportedly are constructed according to American Petroleum Institute, ASTM International, or Underwriters Laboratory specifications. The container materials and construction reportedly are compatible with stored products at storage temperature and pressure.

11.2.2 Secondary Containment [40 CFR 112.8(c)(2)]

The secondary containment system for each container is described in Table 1.

Containers that do not have secondary containment are regularly inspected for any leaks or weaknesses and maintained as needed.

11.2.3 Drainage of Rainwater [40 CFR 112.8(c)(3)]

For transformers located in pervious areas, rainwater generally infiltrates into the ground surface surrounding the equipment. The procedures for supervising the drainage of rainwater from the secondary containment areas are presented below.

In general, accumulated stormwater in the curbed areas is allowed to evaporate. If necessary, accumulated stormwater would be drained to the adjacent ground. Drainage occurs only under direct supervision by qualified personnel. Immediately upon completion of drainage activities, drain valves (if present) are returned to a closed position and locked. Prior to draining, the following activities are completed:

- Prior to opening the valve or initiating pumping activities, the water will be inspected for the presence of oil. If oil (sheen) is not observed, then the valve may be opened and stormwater drained.
- If oil (sheen) is present, water will not be released from the containment area.
- Records of drainage activities will be documented and maintained for each drainage occurrence, indicating the dates pumping occurred, whether valves were opened, and an estimate of the amount of water drained on the Drainage Inspection Form or similar form. Blank forms are provided in Appendix C of this SPCC Plan. Completed drainage records are to be maintained in Appendix D and retained for at least 3 years.

The procedures for supervising the drainage of rainwater from the secondary containment areas are presented below.

11.2.4 Buried Storage Tanks [40 CFR 112.8(c)(4)]

No buried storage tanks are located at this facility.

11.2.5 Partially Buried Storage Tanks [40 CFR 112.8(c)(5)]

No partially buried storage tanks are located at this facility.

11.2.6 Aboveground Container Integrity Testing [40 CFR 112.8(c)(6)]

Periodic integrity testing is not required at this facility, because bulk storage containers are not in use.

Visual inspections of oil containing equipment, including secondary containment systems, are performed during routine activities at the facility. In addition, the outside of the containers is inspected for signs of deterioration, discharges, or accumulation of oil. Any indication of deterioration or leakage that may cause a discharge or accumulation of oil inside containment areas is reported to appropriate personnel.

A documented inspection of the oil containers and secondary containment systems will be completed monthly. Written procedures for these inspections are provided on the Facility Inspection Form provided behind Appendix C of this SPCC Plan. The results of the inspection will be recorded on this form or a similar form. Completed inspection forms are to be kept in Appendix D of this SPCC Plan at the facility and retained for at least 3 years.

11.2.7 Heating Coils [40 CFR 112.8(c)(7)]

No tanks with steam heating coils are used at this facility.

11.2.8 Alarm Systems [40 CFR 112.8(c)(8)]

Tanks onsite are not equipped with alarm devices. However, the oil storage containers at this facility are not used for active dispensing or transferring of oil from one container to another. Spill protection in the form of drip pans and oil absorbent materials is used during maintenance of all oil-containing equipment.

11.2.9 Treatment Facilities [40 CFR 112.8(c)(9)]

No plant effluents discharge to navigable waters at this facility.

11.2.10 Visible Oil Leaks [40 CFR 112.8(c)(10)]

If visible oil leaks from container seams, gaskets, piping, pumps, valves, rivets, and bolts are observed, they will be promptly corrected. Accumulated oil in diked/bermed areas will be promptly removed.

11.2.11 Mobile or Portable Containers [40 CFR 112.8(c)(11)]

There are no mobile or portable bulk oil storage containers located at this facility. There is a dedicated area for mobile refueling located west of Warehouse 205 that is operated by a SSA, a tenant at this facility. Oil and fuel transfer operations in this area are conducted by SSA.

11.3 Facility Transfer Operations, Pumping, and In-Plant Process [40 Cfr 112.8(D)]

No fixed piping systems for filling tanks are in place at this facility.

11.4 Onshore Oil Production Facilities [40 CFR 112.9]

This facility is not an onshore oil production facility.

11.5 Onshore Oil Drilling and Workover Facilities [40 CFR 112.10]

This facility is not an onshore oil drilling or workover facility.

11.6 Offshore Oil Drilling, Production, or Workover Facilities [40 CFR 112.11]

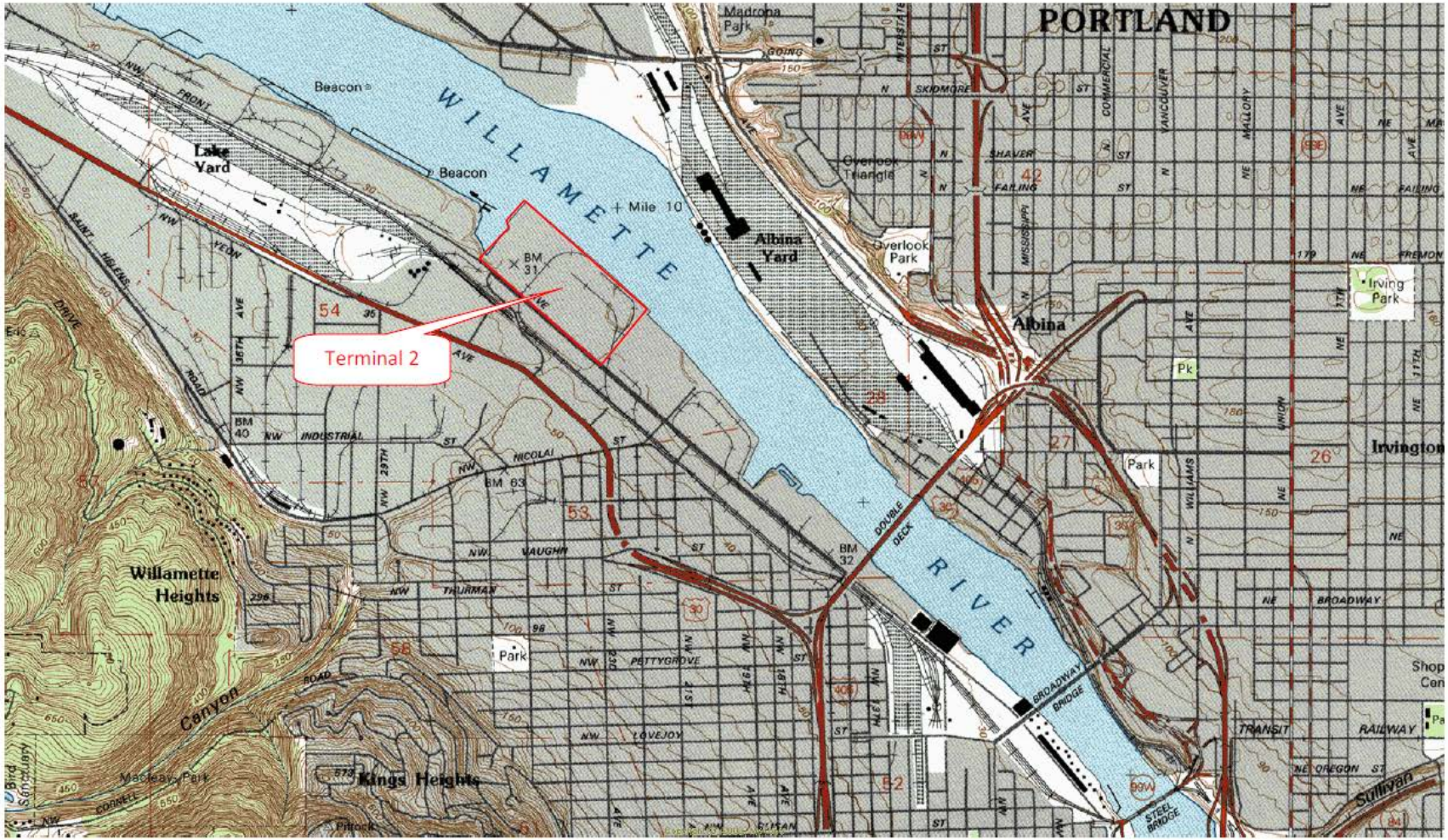
This facility is not an offshore oil production and/or drilling facility.

Table

Table 1: Bulk Storage Containers

Container #	Location	Substance Stored	Quantity Store (gallons)	Material of Construction	Alarm Systems	Secondary Containment/ Diversionary Structure	Containment Size (gallons)
OIL CONTAINING EQUIPMENT							
MT2-235	SSA Area	Transformer oil	150	Steel	None	Concrete with curb	>150
MT2-095	SSA Area	Transformer oil	100	Steel	None	Asphalt with concrete curb	>100
MT2-085	South of Warehouse 205	Transformer oil	268	Steel	None	Asphalt with concrete curb	>268
MT2-087	West of Warehouse 203	Transformer oil	255	Steel	None	Concrete curb with earth/concrete floor	>255
MT2-088	West of Warehouse 203	Transformer oil	255	Steel	None	Concrete curb with earth/concrete floor	>255
MT2-089	North of low dock office building	Transformer oil	290	Steel	None	Concrete curb with earth/asphalt floor	>290
MT2-090	North of low dock office building	Transformer oil	255	Steel	None	Concrete curb with earth/asphalt floor	>290
MT2-094	West of reefers along entrance drive fence	Transformer oil	255	Steel	None	Concrete curb with earth/concrete floor	>255

Figures

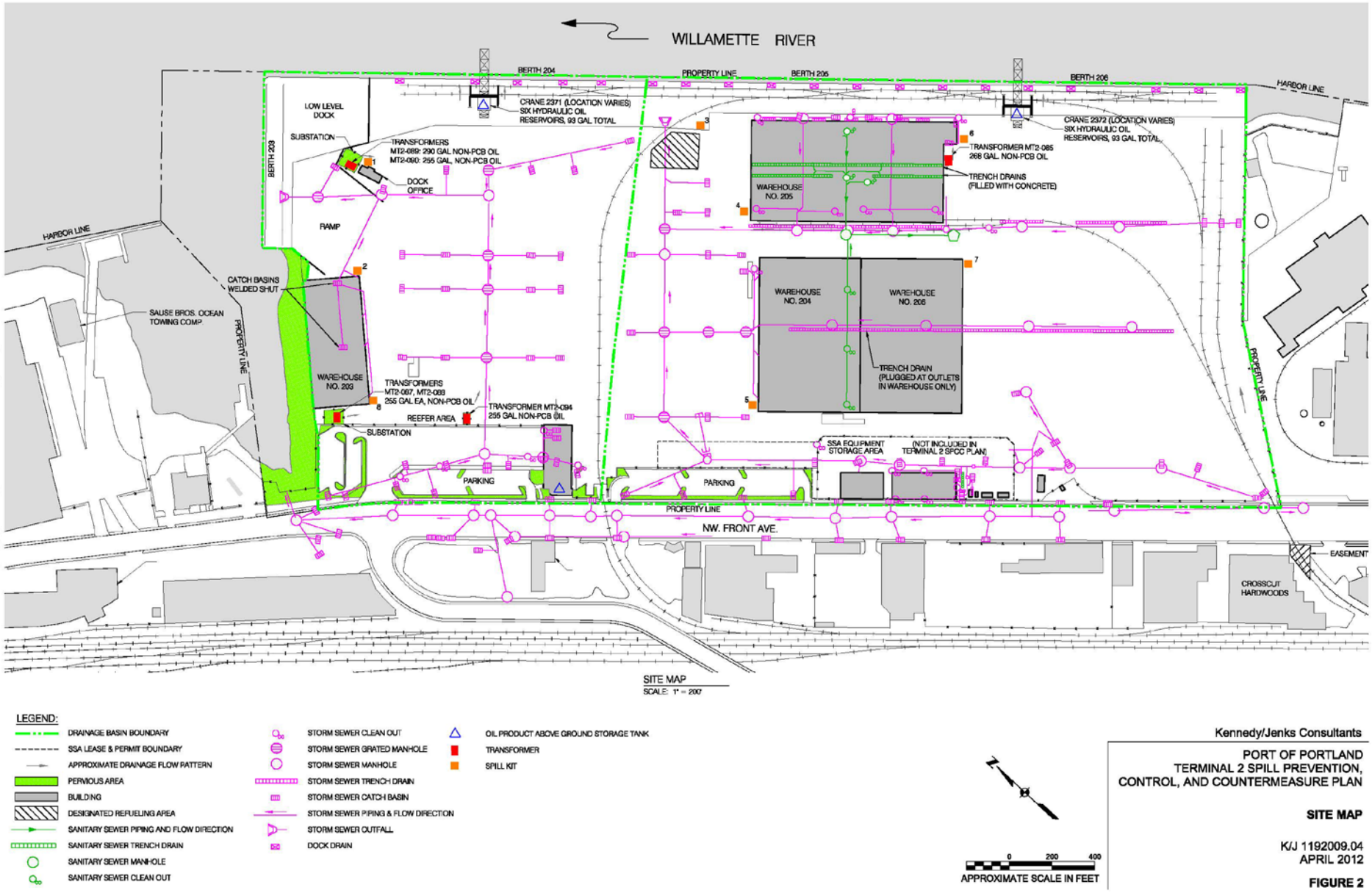


Kennedy/Jenks Consultants

PORT OF PORTLAND - TERMINAL 2
SPILL PREVENTION, CONTROL, AND
COUNTERMEASURE PLAN

GENERAL LOCATION MAP

K/J 1192009.06
July 2014
FIGURE 1


WILLAMETTE RIVER
BERTH 204
PROPERTY LINE
BERTH 205
BERTH 206
HARBOR LINE
LOW LEVEL DOCK
SUBSTATION
BERTH 203
TRANSFORMERS MT2-089: 290 GAL NON-PCB OIL MT2-090: 255 GAL NON-PCB OIL
DOCK OFFICE
RAMP
CRANE 2371 (LOCATION VARIES) SIX HYDRAULIC OIL RESERVOIRS, 93 GAL TOTAL
CRANE 2372 (LOCATION VARIES) SIX HYDRAULIC OIL RESERVOIRS, 93 GAL TOTAL
TRANSFORMER MT2-085 268 GAL. NON-PCB OIL
TRENCH DRAINS (FILLED WITH CONCRETE)
WAREHOUSE NO. 205
WAREHOUSE NO. 204
WAREHOUSE NO. 206
TRENCH DRAIN (PLUGGED AT OUTLETS IN WAREHOUSE ONLY)
CATCH BASINS WELDED SHUT
SAUSE BROS. OCEAN TOWING COMP
WAREHOUSE NO. 203
TRANSFORMERS MT2-087, MT2-088 255 GAL EA, NON-PCB OIL
TRANSFORMER MT2-084 255 GAL NON-PCB OIL
REEFER AREA
SUBSTATION
PARKING
SSA EQUIPMENT STORAGE AREA
(NOT INCLUDED IN TERMINAL 2 SPCC PLAN)
NW. FRONT AVE.
EASEMENT
CROSSCUT HARDWOODS
SITE MAP
SCALE: 1" = 200'
LEGEND:
DRAINAGE BASIN BOUNDARY
SSA LEASE & PERMIT BOUNDARY
APPROXIMATE DRAINAGE FLOW PATTERN
PERVIOUS AREA
BUILDING
DESIGNATED REFUELING AREA
SANITARY SEWER PIPING AND FLOW DIRECTION
SANITARY SEWER TRENCH DRAIN
SANITARY SEWER MANHOLE
SANITARY SEWER CLEAN OUT
STORM SEWER CLEAN OUT
STORM SEWER GRATED MANHOLE
STORM SEWER MANHOLE
STORM SEWER TRENCH DRAIN
STORM SEWER CATCH BASIN
STORM SEWER PIPING & FLOW DIRECTION
STORM SEWER OUTFALL
DOCK DRAIN
OIL PRODUCT ABOVE GROUND STORAGE TANK
TRANSFORMER
SPILL KIT
0 200 400
APPROXIMATE SCALE IN FEET
Kennedy/Jenks Consultants
PORT OF PORTLAND
TERMINAL 2 SPILL PREVENTION, CONTROL, AND COUNTERMEASURE PLAN
SITE MAP
K/J 1192009.04
APRIL 2012
FIGURE 2
P:\cad\1111192009.06_Port_of_Portland_SPCC\1192009-FIGURE_02.dwg KIM SLACK 4/19/2012 7:04 PM

Appendix A

Specific Discharge Preventive Measures

APPENDIX A

PORT OF PORTLAND TERMINAL 2 FACILITY
SPECIFIC DISCHARGE PREVENTIVE MEASURES

The following management, preventive maintenance, housekeeping, and inspection practices are in place at the Terminal 2 Facility:

Oil-Filled Operational Equipment

- Transformers are serviced and maintained in order to assure proper operation and prevent leaks or failure.

- Transformers are contained, monitored, and inspected to detect potential release of hydrocarbons.

- Visual inspections of the reservoirs and seams are conducted to look for signs of deterioration and/or leaks, particularly at seams, welds, and flanged connections, which might cause a spill or accumulation inside diked/bermed areas.

Appendix B

Spill Response Contingency Plan

APPENDIX B

PORT OF PORTLAND TERMINAL 2 FACILITY
SPILL CONTINGENCY PLAN

B1.0 NOTIFICATION PROCEDURE

In the event of an oil spill incident, facility personnel on-duty will take immediate action to notify the Port personnel identified on the list of emergency telephone numbers on page v at the front of the SPCC Plan. The designated person (or coordinator) accountable for oil spill prevention is responsible and required by federal and state laws to notify the applicable federal, state, and local agencies provided on the list.

B2.0 SPILL CONTINGENCY PLAN

In the event of an oil spill incident, facility personnel will follow the procedures outlined below:

- CONTROL THE SOURCE OF THE SPILL
  - Stop flow of product (secure valves and pumps)
  - Shut off ignition sources, if applicable.
- CONTAIN THE SPILL TO THE SMALLEST POSSIBLE AREA
- CALL YOUR SUPERVISOR FOR FURTHER INSTRUCTIONS
- REPORT THE SPILL TO PROPER SPILL REPORTING AGENCIES AS REQUIRED.

B3.0 SPILL CONTROL PROCEDURES

An oil spill incident could occur at the facility from the following situations:

- Hydraulic reservoir failure
- Transformer failure
- Spill during reservoir filling or maintenance operations.

Potential spill scenarios were presented in Section 2.0 of the SPCC Plan. Should an oil spill incident occur, facility personnel will immediately implement the following spill control measures to prevent a spill from entering navigable waters:

- Hydraulic reservoir failure
  - Ensure that spilled oil is contained (see Section B4.0, Countermeasure Procedures)
  - Add water to provide layer of water on bottom
  - Pump oil into drums or other appropriate containers away from surface water or storm drains.

- Transformer failure
  - Ensure that spilled oil is contained (see Section B4.0, Countermeasure Procedures)
  - Add water to provide layer of water on bottom
  - Pump oil into drums or other appropriate containers away from surface water or storm drains.

- Spill during loading/offloading operations
  - Turn off pump
  - Ensure that spilled oil is contained (see Section B4.0, Countermeasure Procedures)
  - Pump oil into drums or other appropriate containers away from surface water or storm drains.

B4.0 COUNTERMEASURE PROCEDURES

Once the spill control procedures outlined above have been implemented, facility personnel will initiate countermeasure activities to contain, cleanup, and mitigate the effects of an oil spill that could impact navigable waters. Furthermore, incident-specific considerations and precautions must also be implemented during each spill incident to adequately protect human health and the environment.

The facility's countermeasure procedures are outlined below.

- Containment. Containment activities will be initiated as soon as possible to prevent spreading of the spilled material. Containment techniques include, but are not limited to:
  - Trenching and diking
  - Catch basin covers
  - Filter fences
  - Booms.

- Removal. Once the spill is contained, the oil will be removed. Removal techniques include, but are not limited to:
  - Pumps
  - Sorbents (pads, pillows, or booms)
  - Skimmers
  - Vacuum trucks.

- Disposal. After the spill is contained, the site will be cleaned up. This includes recycling any recovered oil, disposing of abatement materials used to contain and/or remove the spill, and excavating oil-contaminated soil. Disposal techniques include, but are not limited to:
  - Recycling
  - Disposal at an appropriate facility.

B5.0 EMERGENCY RESPONSE EQUIPMENT LOCATION

The following table identifies the type and location of the emergency response equipment available at the facility.

Identification	Location	Equipment List
Spill Kit #1	Northwest corner of low dock office building	Spill containment kit
Spill Kit #2	Northeast corner of Warehouse 203	Spill containment kit
Spill Kit #3	Refueling area, west of Warehouse 205	Spill containment kit
Spill Kit #4	Southwest corner of Warehouse 205	Spill containment kit
Spill Kit #5	Southwest corner of Warehouse 204	Spill containment kit
Spill Kit #6	Northeast corner of Warehouse 205	Spill containment kit
Spill Kit #7	Northeast corner of Warehouse 204	Spill containment kit

Additional spill response equipment such as pumps, booms, and additional absorbents are available on a 24-hour basis from the emergency response contractors listed on the Emergency Notification Phone List.

Appendix C

Blank Forms

Form 1: Monthly Facility Inspection Form

FORM 1

MONTHLY FACILITY INSPECTION FORM
Port of Portland
Terminal 2 Facility

Inspected by: _____ **Signature:** _____ **Date:** _____ **Time:**_____

Location	Container #	Contents	Capacity (gallons)	Condition OK = Acceptable X= Not Acceptable NA = Not Applicable			Comments
				Container	Valves & Appurtenances	Secondary Containment	
Oil Containing Equipment							
SSA Area	TM2-235	Transformer oil	150				
	MT2-095	Transformer oil	100				
South of Warehouse 205	MT2-085	Transformer oil	268				
West of Warehouse 203	MT2-087	Transformer oil	255				
	MT2-088	Transformer oil	255				
North of low dock office building	MT2-089	Transformer oil	290				
	MT2-090	Transformer oil	255				
West of reefers along entrance drive fence	MT2-094	Transformer oil	255				

Procedures: At each noted location, visually inspect and note any deficiencies for the following equipment and/or systems **(as applicable)**:

Check Tanks for:
- Signs of leaks
- Shell distortion
- Signs of settling
- Corrosion
- Tank coatings, insulation and general exterior
- Condition of tank foundations/supports
- Emergency Vents (check o-rings and gaskets on emergency vents once/year)
- Leak detection (if applicable)
- Water in tank
- Water in interstitial space

Check piping, valves and appurtenances for:
- Signs of leaks
- Support integrity
- Insulation
- Valves locked as appropriate
- Unused pipes blind-flanged

Check containment area for:
- Signs of spills
- Site drainage
- Integrity
- Valves sealed closed
- Fences secured

Deficiencies should be noted in the comments column or additional comments section.

Completed forms are to be kept in the Master Copy of this SPCC Plan.

Additional Comments:

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

Drainage Inspection Form

DRAINAGE INSPECTION FORM

PORT OF PORTLAND
TERMINAL 2 FACILITY

Date/Time of Drainage Activity	Tank Contents	SPCC Tank #	Oil/Sheen Observed?	If Observed, Method Used to Remove Oil/Sheen	Drainage Method/ Drained To	Approximate Volume Drained (Gallons)	Drainage Conducted By	Signature
Example: 1/1/99 – 12:00 pm	Transformer oil	1	No	N/A	Open valve/to ground	100		EXAMPLE ONLY

Completion of 5-Year Review and Evaluation Form

COMPLETION OF 5-YEAR REVIEW AND EVALUATION

A review and evaluation of this SPCC Plan has been performed as required under 40 CFR 112.5(b)

I have completed the review and evaluation of the SPCC Plan for the Terminal 2 Facility on _____ (date) and will (___)/will not (___) amend the SPCC Plan as a result.

Signature: _____ Date: _____

Name: _____

Title: _____

Note: You must amend your SPCC Plan within 6 months of the review to include more effective prevention and control technology if the technology has been field-proven at the time of the review and will significantly reduce the likelihood of a discharge [as defined in 40 CFR 112.7(b)]. You must implement any amendment as soon as possible, but not later than 6 months following preparation of any amendment.

Training Roster

Training Roster

Spill Prevention Control and Countermeasure Plan

Date: _____ Instructor: _____

Location: _____

Agenda Items:

- _____
- _____
- _____
- _____
- _____
- _____

	Employee Name (Please Print Legibly)	**Title**
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		

Spill Response Notification Form

SPILL RESPONSE NOTIFICATION FORM

(Complete this form with all known information but do not delay reporting the spill if all information is not known or available.)

Reporter's Last Name _____ First _____ M.I. _____

Phone Number _____

Company _____

Organization Type _____

Position _____

Address _____

_____

City _____ State _____ Zip _____

Phone Number: _____

Were Materials Released? _____ (Y/N) Confidential? _____ (Y/N)

Meeting Federal Obligation to Report? _____ (Y/N) Date Called _____

Calling for Responsible Party? _____ (Y/N) Time Called _____

Incident Description

Source and/or Cause of Incident _____

_____

_____

_____

Date of incident _____ Time of Incident _____ AM/PM

Incident Address/Location _____

_____

Nearest City _____ State _____ County _____Zip _____

Distance from City _____ Units _____ Direction From City _____

Container Type _____ Tank Capacity _____ Units _____

Facility Capacity _____ Units _____

If known:

Section _____ Township _____ Range _____

Facility Latitude _____ Degrees _____ Minutes_____ Seconds

Facility Longitude _____ Degrees _____ Minutes_____ Seconds

SPILL RESPONSE NOTIFICATION FORM

Material

Material Released	CHRIS Code	Total Released Quantity	Unit of Measure	Material Released in Water	Quantity	Units of Measure

Response Action

Actions Taken to Correct, Control, or Mitigate Incident: _____

_____

_____

_____

Impact

Number of Injuries _____ Number of Deaths _____

Were There Evacuations? _____ (Y/N) Number Evacuated _____

Was There Any Damage? _____ (Y/N) Damage in Dollars (approximate) _____

Medium Affected _____

Description _____

More Information About Medium _____

_____

Additional Information

Any Information about the Incident Not Recorded Elsewhere in the Report? _____

_____

Notification Documentation
(Phone numbers are listed in Emergency Contacts list at the front of this SPCC Plan)

	Name	Time
Port Staff Notified		
EPA		
USCG		
OERS		
ODEQ		
NRC		

Appendix D

Completed Forms

Form 1: Monthly Facility Inspection Form

Drainage Inspection Form

Completion of 5-Year Review and Evaluation Form

Training Roster

Spill Response Notification Form