SPCC Plan Facility Diagram Interactive Workshop

CUPA Programs Workshop 2025

July 31, 2025

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Presented by:

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CONDOR EARTH

Sonora, Stockton, Jamestown, Gold River

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Course Overview

- Facility Diagram
  - Introduction
  - Requirements
  - Recommendations
  - Activity
  - Review

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Facility Diagram

- California's Aboveground Petroleum Storage Act (APSA) and the federal EPA's Spill Prevention, Control, and Countermeasure (SPCC) rule both aim to prevent oil spills that could affect navigable waters.
- Both APSA and the SPCC rule emphasize the importance of a detailed facility diagram within the SPCC Plan to aid in spill prevention, response, and inspection efforts.
- The APSA Program Guidance Document references the federal SPCC requirements for facility diagrams.

Facility Diagram

- SPCC Guidance for Regional Inspectors:
  - The facility diagram is important for discharge prevention and to help the facility and emergency response personnel to plan for emergencies.
  - The location of containers, piping, and transfer areas subject to the SPCC rule must be known by those implementing the Plan and by inspectors.
  - The diagram may visually address other rule requirements such as discharge/drainage controls and the flow path of a discharge.

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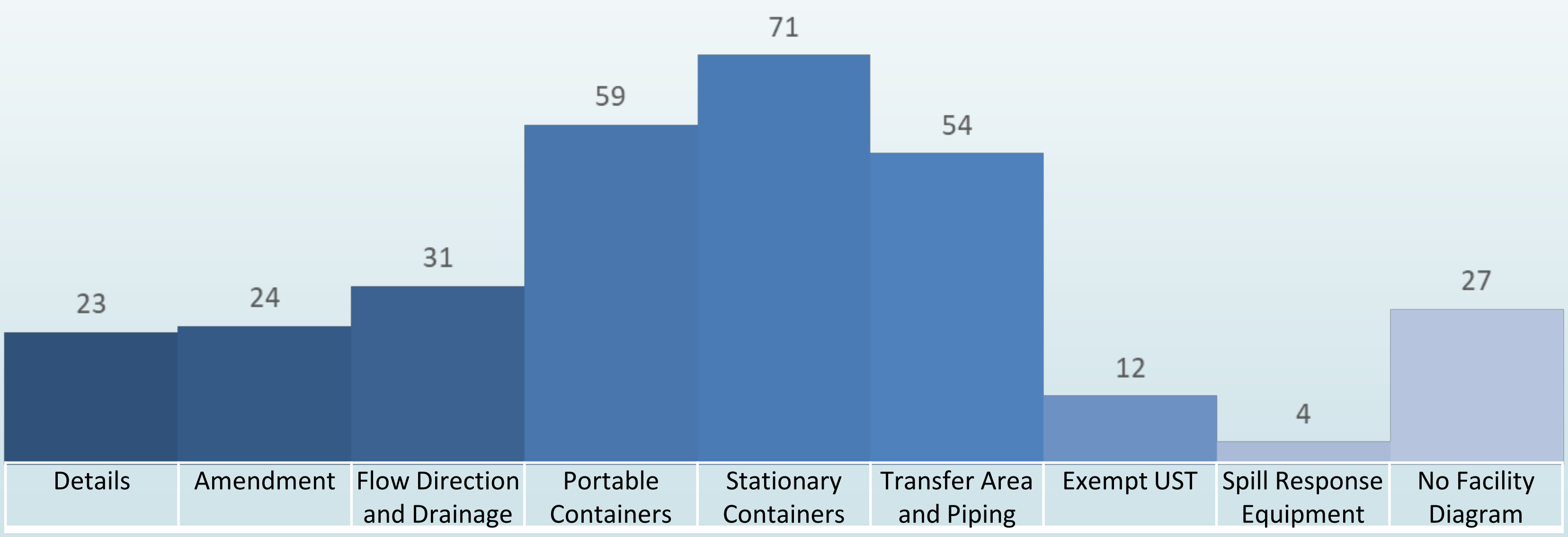
Facility Diagram

- SPCC Guidance for Regional Inspectors:
  - Exempt
    - Containers that have a capacity below 55 gallons, are permanently closed, or are otherwise exempt from the rule (with the exception of exempt underground tanks) are not required to be identified on the facility diagram.
  - Facility Exclusion
    - The facility diagram exclusion applies only for Tier I qualified facilities.

Facility Diagram
APSA Inspection Violation Descriptions
2020 - 2025



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Facility Diagram Requirements

- SPCC Guidance for Regional Inspectors required items:
  - Aboveground storage tanks (including location and contents);
  - Underground storage tanks (including location and contents);
  - Storage area(s) where mobile or portable containers are located;
  - Transfer areas and loading/unloading racks;
  - Oil-filled equipment (including location and contents);
  - Oil-filled electrical equipment (including location and contents); and
  - Connecting piping

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Facility Diagram Recommendations

- SPCC Guidance for Regional Inspectors recommended additions:
  - Aboveground storage tank capacities and/or tank identification numbers;
  - Secondary containment structures, including oil/water separators used for containment;
  - Storm drain inlets and surface waters that could be affected by a discharge;
  - Direction of flow in the event of a discharge;
  - Legend that indicates scale and identifies symbols;
  - Location of response kits or other equipment for active containment;

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Facility Diagram Recommendations

- SPCC Guidance for Regional Inspectors recommended additions continued:
  - Location of firefighting equipment and pipe stands for foam application;
  - Location of valves or drainage system controls;
  - Location of important piping appurtenances;
  - Compass direction indicating north; and
  - Topographical information and area maps.

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Facility Diagram Activity

- Team Activity Instructions
  - **Minimum** group size of **4** and **maximum** group size of **8**
  - Markup the Facility Diagram Template with required and recommended details using Table 1 - Facility Oil Containers information
  - Create the diagram for your ideal SPCC facility
  - We will review one diagram together
  - Facility diagrams will be graded and one team awarded a prize for each member
  - **Provide names and numbers on the back of the diagram, listen for your name or look for a text (WINNER) and find a Condor (Ashley, Jack or Lori) for your prize by the end of the Workshop.**

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Facility Diagram Activity

- Team Activity Materials
  - Facility Diagram Template
  - Table 1 - Facility Oil Containers
  - Pens
  - SPCC Guidance for Regional Inspectors 6.4.3 Requirements for a Facility Diagram

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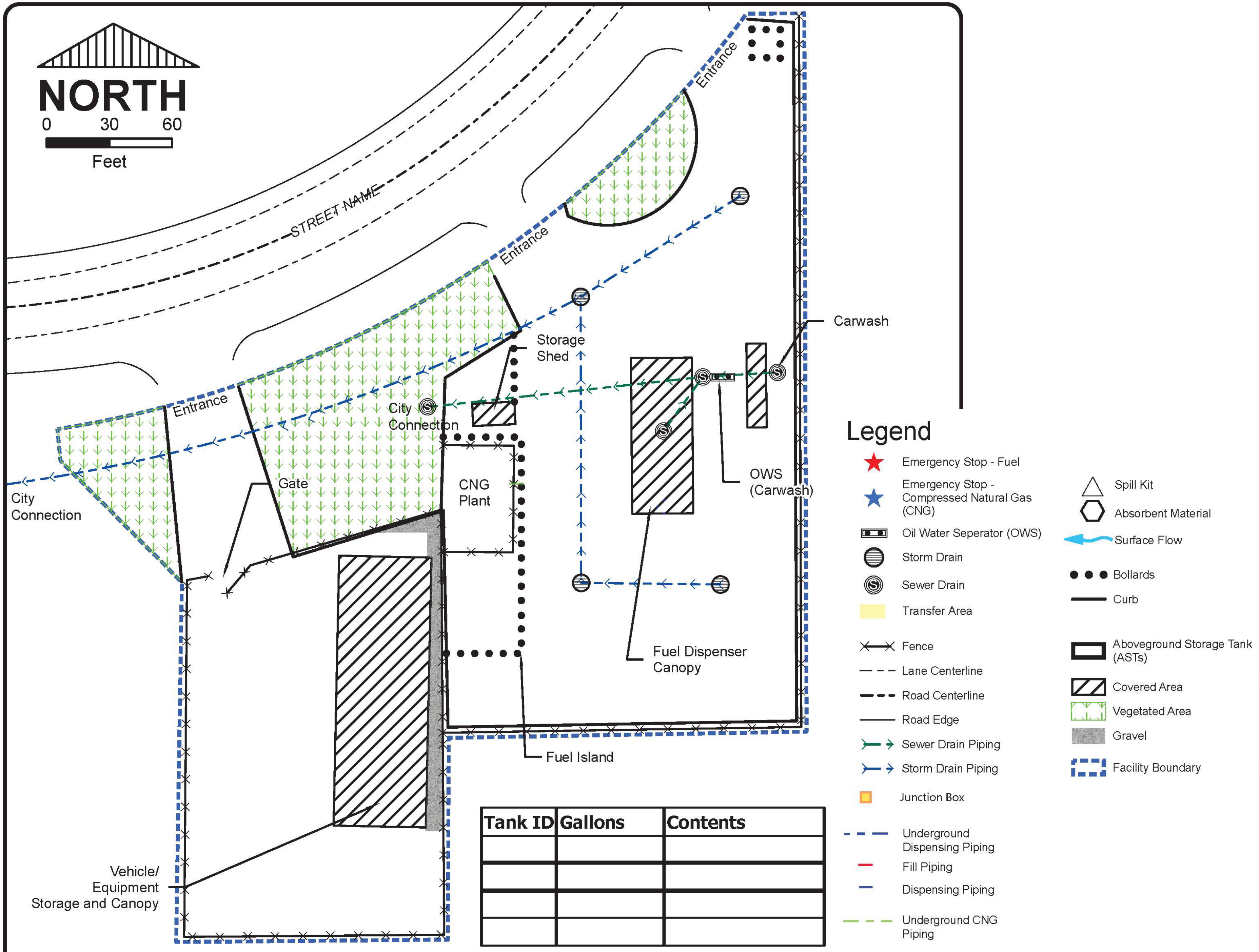

Tank ID	Gallons	Contents

Facility Diagram Activity

- Facility Oil Containers

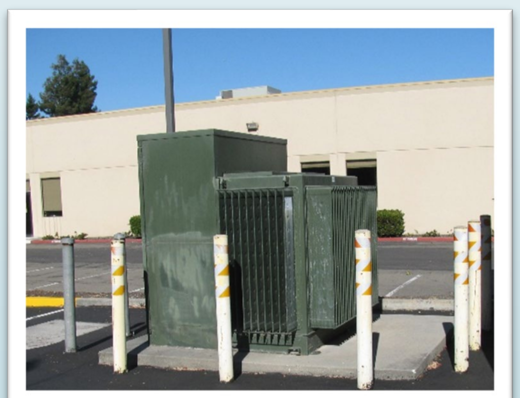

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Table 1 -- Facility Oil Containers

Oil Container Identification, Discharge Prevention and Controls				
Container Identification or Storage Area[A]	**Container Contents[B]**	**Volume (gallons)**	**Container or Storage Area Description**	**Discharge Prevention and Controls[C]**
Aboveground Storage Tanks (ASTs)				
T1 (Photo 1)	Diesel	10,000	Fixed installation, double-walled, elevated, horizontal, cylindrical steel tank, stored in the Fuel Island	• AST is double-walled. Double-walled tanks by design integrate 100% containment of the primary tank. • Aboveground transfer piping from the Tank is converted to double-walled underground piping at the junction box to the dispensers. The junction box is located between the tank and T2. The dispensers are located at the Fuel Dispenser Canopy. • Trained Facility personnel are present during transfer operations. • The tank is equipped with a liquid level gauge. Tank shall not be filled past 90% liquid level indicated on the tank chart posted at the tank. • Filling operations utilize tanker truck flexible hosing connections, spill buckets and weighted storm drain covers. • Dispensing operations utilize fuel dispensers equipped with auto shut-off hand nozzles to prevent tank overflow. • Monthly and annual visual inspections shall be conducted. • Facility personnel are trained in spill response and reporting procedures. • Emergency shut off for the tank is located between the tank and T2. Emegency shut off for the fuel dispensers is located at the Fuel Dispenser Canopy. • A spill kit is located ner the tank at the Fuel Island. Absorbent materials are located near the dispensers at the Fuel Dispenser Canopy and in the Storage Shed.
T2 (Photo 1)	Gasoline	10,000	Fixed installation, double-walled, elevated, horizontal, cylindrical steel tank, stored in the Fuel Island	• AST is double-walled. Double-walled tanks by design integrate 100% containment of the primary tank. • Aboveground transfer piping from the Tank is converted to double-walled underground piping at the junction box to the dispensers. The junction box is located between the tank and T1. The dispensers are located at the Fuel Dispenser Canopy. • Trained Facility personnel are present during transfer operations. • The tank is equipped with a liquid level gauge. Tank shall not be filled past 90% liquid level indicated on the tank chart posted at the tank. • Filling operations utilize tanker truck flexible hosing connections, spill buckets and weighted storm drain covers. • Dispensing operations utilize fuel dispensers equipped with auto shut-off hand nozzles to prevent tank overflow. • Monthly and annual visual inspections shall be conducted. • Facility personnel are trained in spill response and reporting procedures. • Emergency shut off for the tank is located between the tank and T1. Emegency shut off for the fuel dispensers is located at the Fuel Dispenser Canopy. • A spill kit is located ner the tank at the Fuel Island. Absorbent materials are located near the dispensers at the Fuel Dispenser Canopy and in the Storage Shed.

Table 1 -- Facility Oil Containers

Oil Container Identification, Discharge Prevention and Controls				
Container Identification or Storage Area[A]	Container Contents[B]	Volume (gallons)	Container or Storage Area Description	Discharge Prevention and Controls[C]
Portable Containers (Drums and Mobile Refueler)				
T3 (Photo 2)	Diesel	2,000	T3 is a mobile refueler with one 2,000-gallon tank of diesel parked in the Vehicle/Equipment Storage and Canopy	• T3 is parked in the Vehicle/Equipment Storage and Canopy concrete containment structure with an approximate available capacity of 3,863 gallons. • Trained Facility personnel are present during transfer operations. • Tank accessories are inspected during regular vehicle inspections. • Monthly and annual visual inspections shall be conducted. • Facility personnel are trained in spill response and reporting procedures. • Spill kits and absorbent materials are readily available.
Storage Shed (Photo 3)	Used Oil	55	8 x 55-gallon drums (up to 440 gallons total)	• Drums are stored on a sufficiently impervious containment structure with an approximate capacity 62. • Oil transfers are to be monitored by Facility personnel. • Facility personnel are trained in spill response measures. • Absorbent materials are located in the Storage Shed and at the Fuel Dispenser Canopy. A spill kit is located near the drums at the Fuel Island.
Oil-Filled Electrical Equipment				
PMT1	Transformer Oil	339	Pad-mounted electrical transformer	• Spill cleanup materials staged throughout facility. • Facility personnel are trained in spill response and reporting operating procedures. • Typically bollards or concrete blocks guard transformers from vehicle and equipment strikes.
		22,779	**Estimated Total Oil Storage Capacity (gallons) Subject to SPCC**	
		22,440	**Estimated Total Oil Storage Capacity (gallons) Subject to APSA**	

QUESTIONS?

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