

**TABLE 4**  
**Likely Discharge Volume and General Secondary Containment/Discharge Countermeasures Summary**

SPCC Plan Identifier <sup>1</sup>	Location	Contents	Capacity (gallons)	Major Equipment Failure Modes	Estimated Flow Rate (gpm)	Time Required to Stop Pumps (seconds)	Estimated Volume of Oil from Pumping (gallons)	Estimated Volume of Oil in Piping (gallons) <sup>2</sup>	Likely Discharge Volume <sup>3</sup> (gallons)	General Secondary Containment/Discharge Countermeasures <sup>4</sup>	
T1/T2 <sup>5</sup>	Fueling Island	Diesel/ Gasoline	4,000/ 2,000	Hose rupture or pump failure during tank filling <sup>6</sup>	200	5	17	18	35	Absorbent material, oil/water separator	
				Overflow during tank filling <sup>6</sup>	200	5	17	n/a	17	Absorbent material, oil/water separator	
				Spill during diesel fueling	20	10	3	<1	3	Absorbent material, oil/water separator	
				Spill during gasoline fueling	10	10	2	<1	2	Absorbent material, oil/water separator	
				Drips or leaks from piping or flexible tubing <sup>7</sup>	1 drip per minute	n/a	n/a	n/a	<1	<1	Absorbent material, oil/water separator
				Drip or leak due to container damage or loose fittings <sup>7</sup>	1 drip per minute	n/a	n/a	n/a	<1	<1	Absorbent material, oil/water separator
				Hose rupture or pump failure during tank filling <sup>6</sup>	20	5	2	8	10	Inside of Oil Room: absorbent material, trench drains to oil/water separator Outside of Oil Room: absorbent material separator	
T3	Oil Room	Motor Oil	275	Overflow during tank filling <sup>6</sup>	20	5	2	n/a	2	Absorbent material, trench drains to oil/water separator	
				Spill from a rupture of the pneumatic fluid dispensing system product line in the maintenance area	6	600	60	4	64	Absorbent material, trench drains to oil/water separator	
				Spill from a rupture of the pneumatic fluid dispensing system product line in the oil room	6	1,800	180	4	184	Absorbent material, trench drains to oil/water separator	
				Drips or leaks from piping or flexible tubing <sup>7</sup>	1 drip per minute	n/a	n/a	n/a	<1	<1	Absorbent material, trench drains to oil/water separator
				Drip or leak due to container damage or loose fittings <sup>7</sup>	1 drip per minute	n/a	n/a	n/a	<1	<1	Absorbent material, trench drains to oil/water separator
				Hose rupture or pump failure during tank filling <sup>6</sup>	20	5	2	8	10	Inside of Oil Room: absorbent material, trench drains to oil/water separator Outside of Oil Room: absorbent material separator	
				Overflow during tank filling <sup>6</sup>	20	5	2	n/a	2	Absorbent material, trench drains to oil/water separator	
T4	Oil Room	Hydraulic Oil	275	Spill from a rupture of the pneumatic fluid dispensing system product line in the maintenance area	6	600	60	4	64	Absorbent material, trench drains to oil/water separator	
				Spill from a rupture of the pneumatic fluid dispensing system product line in the oil room	6	1,800	180	4	184	Absorbent material, trench drains to oil/water separator	
				Drips or leaks from piping or flexible tubing <sup>7</sup>	1 drip per minute	n/a	n/a	n/a	<1	<1	Absorbent material, trench drains to oil/water separator
				Drip or leak due to container damage or loose fittings <sup>7</sup>	1 drip per minute	n/a	n/a	n/a	<1	<1	Absorbent material, trench drains to oil/water separator
				Overflow during tank filling <sup>6</sup>	20	5	2	n/a	2	Absorbent material, trench drains to oil/water separator	

**TABLE 4**  
**Likely Discharge Volume and General Secondary Containment/Discharge Countermeasures Summary (Continued)**

SPCC Plan Identifier <sup>1</sup>	Location	Contents	Capacity (gallons)	Major Equipment Failure Modes	Estimated Flow Rate (gpm)	Time Required to Stop Pumps (seconds)	Estimated Volume of Oil from Pumping (gallons)	Estimated Volume of Oil in Piping (gallons) <sup>2</sup>	Likely Discharge Volume <sup>3</sup> (gallons)	General Secondary Containment/Discharge Countermeasures <sup>4</sup>
T5	Oil Room	Transmission Fluid	275	Hose rupture or pump failure during tank filling <sup>6</sup>	20	5	2	8	10	Inside of Oil Room: absorbent material, trench drains to oil/water separator Outside of Oil Room: absorbent material
				Overflow during tank filling <sup>6</sup>	20	5	2	n/a	2	
				Spill from a rupture of the pneumatic fluid dispensing system product line in the maintenance area	6	600	60	4	64	Absorbent material, trench drains to oil/water separator
				Spill from a rupture of the pneumatic fluid dispensing system product line in the oil room	6	1,800	180	4	184	Absorbent material, trench drains to oil/water separator
				Drips or leaks from piping or flexible tubing <sup>7</sup>	1 drip per minute	n/a	n/a	n/a	<1	Absorbent material, trench drains to oil/water separator
				Drip or leak due to container damage or loose fittings <sup>7</sup>	1 drip per minute	n/a	n/a	n/a	<1	Absorbent material, trench drains to oil/water separator
				Spill from a rupture of the pneumatic fluid dispensing system product line in the maintenance area	6	600	5	4	9	Absorbent material, trench drains to oil/water separator
				Spill from a rupture of the pneumatic fluid dispensing system product line in the oil room	6	1,800	5	4	9	Absorbent material, trench drains to oil/water separator
T7	Oil Room	Used Oil	275	Drips or leaks from piping or flexible tubing <sup>7</sup>	1 drip per minute	n/a	n/a	n/a	<1	Absorbent material, trench drains to oil/water separator
				Drip or leak due to container damage or loose fittings <sup>7</sup>	1 drip per minute	n/a	n/a	n/a	<1	Absorbent material, trench drains to oil/water separator
				Hose rupture or pump failure during tank unloading <sup>8</sup>	20	5	2	n/a	2	Inside of Oil Room: absorbent material, trench drains to oil/water separator Outside of Oil Room: absorbent material

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Likely Discharge Volume and General Secondary Containment/Discharge Countermeasures Summary (Continued)

SPCC Plan Identifier <sup>1</sup>	Location	Contents	Capacity (gallons)	Major Equipment Failure Modes	Estimated Flow Rate (gpm)	Time Required to Stop Pumps (seconds)	Estimated Volume of Oil from Pumping (gallons)	Estimated Volume of Oil in Piping (gallons) <sup>2</sup>	Likely Discharge Volume <sup>3</sup> (gallons)	General Secondary Containment/Discharge Countermeasures <sup>4</sup>
M1	Building A	Diesel	100	Spill during tank filling	20	10	3	<1	3	Absorbent material, stormwater inlets drain to oil water separator
				Drip or leak due to container damage or loose fittings <sup>7</sup>	1 drip per minute	n/a	n/a	<1	<1	Absorbent material, trench drains to oil/water separator
M2	Building A	Diesel	100	Spill during tank filling	20	10	3	<1	3	Absorbent material, stormwater inlets drain to oil water separator
				Drip or leak due to container damage or loose fittings <sup>7</sup>	1 drip per minute	n/a	n/a	<1	<1	Absorbent material, trench drains to oil/water separator
M3	Building A/ Building B	Asphalt crack sealer	200	Drip or leak due to container damage or loose fittings <sup>9</sup>	1 drip per minute	n/a	n/a	n/a	<1	Building A: absorbent material, trench drains to oil/water separator Building B: absorbent material
				Drip or leak due to container damage or loose fittings <sup>7</sup>	1 drip per minute	n/a	n/a	<1	<1	Building A: absorbent material, trench drains to oil/water separator Building C: absorbent material
M4	Building A/ Building C	Asphalt emulsion	1,500	Drip or leak due to container damage or loose fittings <sup>7</sup>	1 drip per minute	n/a	n/a	n/a	<1	Building A: absorbent material, trench drains to oil/water separator Building C: absorbent material
M5	Building A/ Building C	Asphalt emulsion	200	Drip or leak due to container damage or loose fittings <sup>7</sup>	1 drip per minute	n/a	n/a	n/a	<1	Building A: absorbent material, trench drains to oil/water separator Building C: absorbent material

<sup>1</sup> SPCC Plan Identifier is the name of the bulk storage container, mobile/portable bulk storage container, or oil-filled equipment and the associated piping.

<sup>2</sup> Based on above ground piping length. The calculation for estimated volume of oil in the pipe is  $\pi \times (\text{Pipe Radius})^2 \times \text{Pipe Length}$ .

<sup>3</sup> This is the total Likely Discharge Volume for this scenario as described in Section 5.3. The total Likely Discharge Volume is calculated by multiplying the Estimated Flow Rate by the Time Required to Stop Pump to determine the Estimated Volume of Oil from Pumping and then adding the Estimated Volume of Oil in Piping. For instances where the potential spill scenario does not involve a pump or piping, "n/a" is presented.

<sup>4</sup> Estimated absorptive capacities for one gallon of oil: five 15" x 20" absorbent pads; two 3" x 48" absorbent socks; 8-12 pounds loose clay absorbent, or 10 pounds diatomaceous earth. Actual absorptive capacities may vary by product type. Where absorbent material is the only General Secondary Containment/Discharge Countermeasure listed, the facility maintains sufficient quantities of absorbent material to contain the Likely Discharge Volume.

<sup>5</sup> T1/T2 is a multi-compartment, aboveground storage tank.

<sup>6</sup> Estimates for flow rate from tank trucks was provided by the oil supply vendor.

<sup>7</sup> Based on industry experience, it was assumed the volume and flow rate of oil from a drip from the container, piping, flexible tubing, or a transfer hose is low (volume rounded to the nearest gallon assuming 0.05 mL of oil per drip and 1 drip per minute). The Likely Discharge Volume was calculated by assuming the drip is detected within 30 days during the monthly inspections (refer to Section 6.2.6 and Appendix E).

<sup>8</sup> Estimates for flow rate to tank trucks was provided by the oil removal vendor.

<sup>9</sup> Estimates for flow rate for drips and leaks was provided by asphalt tank trailer manufacturers. This asphalt product is normally a solid at ambient temperature. At elevated temperatures, drips and leaks are not expected to flow to the ground.

**TABLE 5**  
**Sized Secondary Containment and Discharge Avoidance System Summary**

SPCC Plan Identifier <sup>1</sup>	Location	Type	Category	Contents	Capacity/ Catastrophic Discharge Volume (gallons) <sup>2</sup>	Construction	Discharge Avoidance System During Container Filling <sup>3</sup>	Sized Secondary Containment <sup>5,6</sup>
T1/T2 <sup>4</sup>	Fueling Island	AST	Fixed Bulk Storage Container	Gasoline/Diesel	4,000/ 2,000	Double-walled Steel	Sight Gauge/ Audible High Liquid Level Alarm/ Automatic Shutoff Mechanism	6,000 gallons from double-walled steel
T3	Oil Room	AST	Fixed Bulk Storage Container	Motor oil	275	Double-walled Steel	Sight Gauge	275 gallons from double-walled steel
T4	Oil Room	AST	Fixed Bulk Storage Container	Hydraulic oil	275	Double-walled Steel	Sight Gauge	275 gallons from double-walled steel
T5	Oil Room	AST	Fixed Bulk Storage Container	Transmission fluid	275	Double-walled Steel	Sight Gauge	275 gallons from double-walled steel
T7	Oil Room	AST	Fixed Bulk Storage Container	Used oil	275	Double-walled Steel	Sight Gauge	275 gallons from double-walled steel
M1	Building A	Truck Fuel Transfer Tank	Mobile Refueler	Diesel	100	Single-walled Steel	Visual monitoring if filled	Exempt <sup>7</sup>
M2	Building A	Truck Fuel Transfer Tank	Mobile Refueler	Diesel	100	Single-walled Steel	Visual monitoring if filled	Exempt <sup>7</sup>
M3	Building A/Building B	Tank Trailer	Mobile Bulk Storage Container	Asphalt crack sealer	200	Single-walled Steel	Visual monitoring if filled	<u>Building A</u> 15,000 gallons from the building floor 375 gallons from oil/water separator <u>Building B</u> 2,800 gallons from the building floor 10,000+ gallons from retention basin
M4	Building A/Building C	Tank Truck	Mobile Bulk Storage Container	Asphalt emulsion	1,500	Single-walled Steel	Visual monitoring if filled	<u>Building A</u> 15,000 gallons from the building floor 375 gallons from oil/water separator <u>Building C</u> 10,000+ gallons from retention basin

**TABLE 5**  
**Sized Secondary Containment and Discharge Avoidance System Summary**

SPCC Plan Identifier <sup>1</sup>	Location	Type	Category	Contents	Capacity/ Catastrophic Discharge Volume (gallons) <sup>2</sup>	Construction	Discharge Avoidance System During Container Filling <sup>3</sup>	Sized Secondary Containment <sup>5,6</sup>
M5	Building A/Building C	Tank Trailer	Mobile Bulk Storage Container	Asphalt emulsion	200	Single-walled Steel	Visual monitoring if filled	<u>Building A</u> 15,000 gallons from the building floor 375 gallons from oil/water separator <u>Building C</u> 3,000 gallons from the building floor 10,000+ gallons from retention basin

<sup>1</sup> SPCC Plan Identifier is the name of the bulk storage container, mobile/portable bulk storage container areas, or oil-filled equipment and the associated piping.

<sup>2</sup> The estimated flow rate is gradual to instantaneous for the loss of the entire container volume. Industry experience suggests that oil storage and activities associated with regulated bulk storage containers result in spill volumes significantly smaller than the catastrophic loss of the entire container contents. Refer to Table 4 and Section 5.3 for the likely discharge volume for containers listed in this table.

<sup>3</sup> Oil handling procedures are presented in Appendix B.

<sup>4</sup> T1/T2 is a multi-compartment, aboveground storage tank.

<sup>5</sup> The volume in gallons of containment of oil from the building floor is calculated as the area of the floor times the depth of oil times a conversion factor from cubic feet to gallons. Assuming that a depth of oil of 1 inch (0.083 feet) can be contained on the floor, the Sized Secondary Containment (gallons) = Area of floor (square feet) x 0.083 (feet) x 7.48 (gallons per cubic foot conversion factor)

<sup>6</sup> The volume in gallons of containment of oil from the retention pond is calculated as the surface area of the pond at the elevation of the catch basin times the depth of 1 foot times a conversion factor from cubic feet to gallons. The Sized Secondary Containment (gallons) = Area of pond (square feet) x 1.0 (feet) x 7.48 (gallons per cubic foot conversion factor)

<sup>7</sup> The secondary containment requirements of §112.8(c)(2) of the SPCC regulation do not apply to oil-filled operational equipment.

n/a - not applicable