



## Permit Application for Loading, Storage, and Dispensing of Organic Compounds

□ □ □ □ □ □ □ □ □ □ □ □

Do not write in this space

1. Name of Firm or Organization \_\_\_\_\_

2. Plant Location \_\_\_\_\_

3. Permit Application is made for (check all that apply):

- Construction of New Facility
- Existing Facility (Initial Permitting)
- Change of Ownership
- Modification of Existing Facility
- Construction of Additional Equipment

Describe \_\_\_\_\_

Loading, Dispensing, or Storage of Product Not Covered Under Existing Permit

Other \_\_\_\_\_

4. Normal Schedule of Operation:

Hours per day \_\_\_\_\_

Weeks per year \_\_\_\_\_

Days per week \_\_\_\_\_

Peak Season \_\_\_\_\_

5. For each regulated pollutant, describe any limitations on source operation which affects emissions or any work practice standard (attach additional page if necessary):

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_





If additional entries are needed, make additional copies of this form and attach to the application. Make sure to identify the additional sheets such as "4a of 10" or "4.1 of 10".

**Table 108.2 – PRODUCT(S) STORED AND LOADED OUT AT FACILITY**

Note: Attach SDS for each product.

PRODUCT CODE	PRODUCT NAME & CAS NO., IF APPLICABLE  (INDICATE IF NEW OR NPS - NOT PREVIOUSLY STORED AT THIS FACILITY)	LIQUID MOLECULAR WEIGHT  (LB/LB-MOLE)	VAPOR MOLECULAR WEIGHT  (LB/LB-MOLE)	AVERAGE TRUE VAPOR PRESSURE  (PSIA)	LIQUID DENSITY  (LB/GAL)	TEMP. STORED AT  (°F)	TOTAL PRODUCT THROUGHPUT  (GAL/YEAR)	LOADOUT <sup>(a)</sup> (MARK ALL THAT APPLY)					WORST CASE VOC EMISSIONS FROM <b>STORING</b> THIS PRODUCT  (TON/YEAR)	WORST CASE VOC EMISSIONS FROM <b>LOADING</b> THIS PRODUCT  (TON/YEAR)
								MARINE VESSEL	TRUCK	RAIL CAR	PIPELINE	OTHER:		
A														
B														
C														
D														
E														
F														
G														
H														
I														
J														
K														
L														
M														
N														
O														
P														
Q														
R														
S														
T														
U														
V														
W														
X														
Y														
Z														

<sup>(a)</sup> Loadout is product transferred from tank through rack to marine vessel, truck or rail car, or container.

If applying for the permitting of more than six tanks, make additional copies of this form as needed and attach to the application. Make sure to identify the additional sheets such as "5a of 10" or "5.1 of 10".

**TABLE 108.3 – FIXED ROOF STORAGE TANK (HORIZONTAL)**

TANK ID						
SHELL LENGTH (FT-IN)						
SHELL DIAMETER (FT-IN)						
MAXIMUM CAPACITY (GALLONS)						
MAXIMUM FILL RATE (GALLONS PER MINUTE)						
HEATED (YES OR NO)						
PRESSURIZED? (YES OR NO)						
PRESSURE/VACUUM SETTING (PSIG)						
UNDERGROUND? (YES OR NO)						
SHELL COLOR/SHADE <sup>(a)</sup>						
SHELL CONDITION <sup>(b)</sup>						
PROPOSED PRODUCTS TO BE STORED <sup>(c)</sup>						
PRODUCT TRANSFER FROM TANK TO:						
MAX TRANSFER RATE (GALLONS PER MINUTE)						

<sup>(a)</sup> Select from: White/White (W/W); Aluminum/Specular (A/S); Aluminum/Diffuse (A/D); Gray/Light (G/L); Gray/Medium (G/M); or Red/Primer (R/P).  
If tank color is unknown, list "default".

<sup>(b)</sup> Select from: Good or Poor. If tank condition unknown, list "default".

<sup>(c)</sup> Use product ID from Table 108.2 or list "ALL" if tank may store all of the products listed in Table 108.2.

If additional entries are needed, make additional copies of this form and attach to the application. Make sure to identify the additional sheets such as "6a of 10" or "6.1 of 10".

**TABLE 108.4 – FIXED ROOF STORAGE TANK (VERTICAL)**

TANK ID							
SHELL HEIGHT (FT-IN)							
SHELL DIAMETER (FT-IN)							
MAXIMUM CAPACITY (GALLONS)							
MAXIMUM FILL RATE (GALLONS PER MINUTE)							
MAX LIQUID HEIGHT (FT-IN)							
AVERAGE LIQUID HEIGHT (FT-IN)							
HEATED? (YES OR NO)							
PRESSURIZED? (YES OR NO)							
SHELL FEATURES	SHELL COLOR/SHADE <sup>(a)</sup>						
	SHELL CONDITION <sup>(b)</sup>						
ROOF FEATURES	ROOF COLOR/SHADE <sup>(a)</sup>						
	ROOF CONDITION <sup>(b)</sup>						
	CONE OR DOME?						
	CONE/DOME HEIGHT (FT-IN)						
PROPOSED PRODUCTS TO BE STORED <sup>(c)</sup>							
PRODUCT TRANSFER FROM TANK TO:							
MAX TRANSFER RATE (GALLONS PER MINUTE)							

<sup>(a)</sup> Select from: White/White (W/W); Aluminum/Specular (A/S); Aluminum/Diffuse (A/D); Gray/Light (G/L); Gray/Medium (G/M); or Red/Primer (R/P).  
If tank color is unknown, list "default".

<sup>(b)</sup> Select from: Good or Poor. If tank condition unknown, list "default".

<sup>(c)</sup> Use product ID from Table 108.2 or list "ALL" if tank may store all of the products listed in Table 108.2.

If applying for the permitting of more than six tanks, make additional copies of this form as needed and attach to the application. Make sure to identify the additional sheets such as "7a of 10" or "7.1 of 10".

**TABLE 108.5 – EXTERNAL FLOATING ROOF STORAGE TANK**

TANK ID							
SHELL DIAMETER (FT-IN)							
MAXIMUM CAPACITY (GALLONS)							
MAXIMUM FILL RATE (GALLONS PER MINUTE)							
MAXIMUM CAPACITY (GALLONS)							
MAXIMUM FILL RATE (GALLONS PER MINUTE)							
DOMED? (YES OR NO)							
INTERNAL SHELL CONDITION <sup>(a)</sup>							
PAINT COLOR/SHADE <sup>(b)</sup>							
PAINT CONDITION <sup>(c)</sup>							
ROOF FEATURES	PONTOON OR DOUBLE DECK?						
	ROOF FITTING CATEGORY <sup>(d)</sup>						
TANK CONSTRUCTION	WELDED OR RIVETED?						
SEAL TYPE	PRIMARY <sup>(e)</sup>						
	SECONDARY <sup>(f)</sup>						
PROPOSED PRODUCTS TO BE STORED <sup>(g)</sup>							
PRODUCT TRANSFER FROM TANK TO:							
MAX TRANSFER RATE (GALLONS PER MINUTE)							

<sup>(a)</sup> Select from: Light Rust; Dense Rust; or Gunitite™ Lining. If internal shell condition unknown, list "default".

<sup>(b)</sup> Select from: White/White (W/W); Aluminum/Specular (A/S); Aluminum/Diffuse (A/D); Gray/Light (G/L); Gray/Medium (G/M); or Red/Primer (R/P).  
If tank color is unknown, list "default".

<sup>(c)</sup> Select from: Good or Poor. If tank condition unknown, list "default".

<sup>(d)</sup> Select from: Typical or Detail. If detail, list fittings and quantities for each tank on Table 108.7.

<sup>(e)</sup> Select from: Mechanical Shoe (MS); Liquid Mounted (LM); or Vapor Mounted (VM).

<sup>(f)</sup> Select from: None; Shoe Mounted (SM); Rim Mounted (RM); or Weather Shield (WS).

<sup>(g)</sup> Use product ID from Table 108.2 or list "ALL" if tank may store all of the products listed in Table 108.2.

If applying for the permitting of more than six tanks, make additional copies of this form as needed and attach to the application. Make sure to identify the additional sheets such as "8a of 10" or "8.1 of 10".

**TABLE 108.6 – INTERNAL FLOATING ROOF STORAGE TANK**

TANK ID							
SHELL DIAMETER (FT-IN)							
MAXIMUM CAPACITY (GALLONS)							
MAXIMUM FILL RATE (GALLONS PER MINUTE)							
SELF SUPPORTING ROOF? (YES OR NO)							
NUMBER OF COLUMNS							
EFFECTIVE COLUMN DIAMETER <sup>(a)</sup>							
INTERNAL SHELL CONDITION <sup>(b)</sup>							
EXTERNAL SHELL	PAINT COLOR/SHADE <sup>(c)</sup>						
	PAINT CONDITION <sup>(d)</sup>						
ROOF FEATURES	PAINT COLOR/SHADE <sup>(c)</sup>						
	PAINT CONDITION <sup>(d)</sup>						
DECK TYPE	BOLTED OR WELDED?						
	DECK FITTING CATEGORY <sup>(e)</sup>						
SEAL TYPE	PRIMARY <sup>(f)</sup>						
	SECONDARY <sup>(g)</sup>						
PROPOSED PRODUCTS TO BE STORED <sup>(h)</sup>							
PRODUCT TRANSFER FROM TANK TO:							
MAX TRANSFER RATE (GALLONS PER MINUTE)							

<sup>(a)</sup> Select from: 9" by 7" Built-up Column; 8" Diameter Pipe; or Unknown.

<sup>(b)</sup> Select from: Light Rust; Dense Rust; or Gunit<sup>TM</sup> Lining. If internal shell condition unknown, list "default".

<sup>(c)</sup> Select from: White/White (W/W); Aluminum/Specular (A/S); Aluminum/Diffuse (A/D); Gray/Light (G/L); Gray/Medium (G/M); or Red/Primer (R/P).  
If tank color is unknown, list "default".

<sup>(d)</sup> Select from: Good or Poor. If tank condition unknown, list "default".

<sup>(e)</sup> Select from: Typical or Detail. If detail, list fittings and quantities for each tank on Table 108.7.

<sup>(f)</sup> Select from: Mechanical Shoe (MS); Liquid Mounted (LM); or Vapor Mounted (VM).

<sup>(g)</sup> Select from: None; Shoe Mounted (SM); Rim Mounted (RM); or Weather Shield (WS).

<sup>(h)</sup> Use product ID from Table 108.2 or list "ALL" if tank may store all of the products listed in Table 108.2.

**TABLE 108.7 – FLOATING ROOF FITTINGS – DETAIL**  
**(DECK OR ROOF CHARACTERISTICS)**

TANK ID: \_\_\_\_\_ TANK CONSTRUCTION:  IFRT  EFRT  DEFRT  
*(Fill out separate page for each IFRT, EFRT, or DEFRT)*

**Specify deck fitting type(s) by checking the appropriate boxes and indicate quantity of each fitting from the following:**

- |   |   |
|---|---|
| <p>A. Access Hatch Qty: _____<br/> <input type="checkbox"/> Bolted cover (gasketed)<br/> <input type="checkbox"/> Unbolted cover (gasketed)<br/> <input type="checkbox"/> Unbolted cover (ungasketed)</p>   | <p>I. Roof Leg or Hanger Well Qty: _____<br/> <input type="checkbox"/> Adjustable<br/> <input type="checkbox"/> Fixed</p>   |
| <p>B. Automatic Gauge Float Well Qty: _____<br/> <input type="checkbox"/> Bolted cover (gasketed)<br/> <input type="checkbox"/> Unbolted cover (gasketed)<br/> <input type="checkbox"/> Unbolted cover (ungasketed)</p>   | <p>J. Sample Pipe or Well Qty: _____<br/> <input type="checkbox"/> Slotted pipe sliding cover (gasketed)<br/> <input type="checkbox"/> Slotted pipe sliding cover (ungasketed)<br/> <input type="checkbox"/> Slit fabric seal, 10% open area</p>  |
| <p>C. Column Well Qty: _____<br/> <input type="checkbox"/> Built-up column sliding cover (gasketed)<br/> <input type="checkbox"/> Built-up column sliding cover (ungasketed)<br/> <input type="checkbox"/> Pipe column-flexible fabric sleeve seal<br/> <input type="checkbox"/> Pipe column-sliding cover (gasketed)<br/> <input type="checkbox"/> Pipe column-sliding cover (ungasketed)</p>  | <p>K. Slotted Guide-Pole/Sample Well Qty: _____<br/> <input type="checkbox"/> Ungasketed sliding cover without float<br/> <input type="checkbox"/> Ungasketed sliding cover with float<br/> <input type="checkbox"/> Gasketed sliding cover without float<br/> <input type="checkbox"/> Gasketed sliding cover with pole wiper<br/> <input type="checkbox"/> Gasketed sliding cover with pole sleeve<br/> <input type="checkbox"/> Gasketed sliding cover with float, wiper<br/> <input type="checkbox"/> Gasketed sliding cover with float, sleeve, wiper<br/> <input type="checkbox"/> Gasketed sliding cover with pole sleeve, wiper</p> |
| <p>D. Gauge-Hatch/Sample Well Qty: _____<br/> <input type="checkbox"/> Weighted mechanical actuation (gasketed)<br/> <input type="checkbox"/> Weighted mechanical actuation (ungasketed)<br/> <input type="checkbox"/> Slit Fabric Seal, 10% open area</p>  | <p>L. Stub drain, 1 inch Diameter<br/> <input type="checkbox"/> Yes<br/> <input type="checkbox"/> No</p>  |
| <p>E. Ladder Well Qty: _____<br/> <input type="checkbox"/> Sliding cover (gasketed)<br/> <input type="checkbox"/> Sliding cover (ungasketed)</p>  | <p>M. Unslotted Guide-Pole/Sample Well Qty: _____<br/> <input type="checkbox"/> Ungasketed sliding cover<br/> <input type="checkbox"/> Gasketed sliding cover<br/> <input type="checkbox"/> Ungasketed sliding cover with sleeve<br/> <input type="checkbox"/> Gasketed sliding cover with sleeve<br/> <input type="checkbox"/> Gasketed sliding cover with wiper</p>   |
| <p>F. Rim Vent, 6 inch Diameter Qty: _____<br/> <input type="checkbox"/> Weighted mechanical actuation (gasketed)<br/> <input type="checkbox"/> Weighted mechanical actuation (ungasketed)</p>  | <p>N. Vacuum Breaker (Automatic Bleeder Vent) Qty: _____<br/> <input type="checkbox"/> Weighted mechanical actuation (gasketed)<br/> <input type="checkbox"/> Weighted mechanical actuation (ungasketed)</p>  |
| <p>G. Roof Drain, Deck Drain Qty: _____<br/> <input type="checkbox"/> Open<br/> <input type="checkbox"/> 90% Closed</p>   |   |
| <p>H. Roof Leg Qty: _____<br/> <input type="checkbox"/> Adjustable – Pontoon Area (ungasketed)<br/> <input type="checkbox"/> Adjustable – Center Area (ungasketed)<br/> <input type="checkbox"/> Adjustable – Double Deck Roofs<br/> <input type="checkbox"/> Fixed<br/> <input type="checkbox"/> Adjustable – Pontoon Area (gasketed)<br/> <input type="checkbox"/> Adjustable – Pontoon Area (socks)<br/> <input type="checkbox"/> Adjustable – Center Area (gasketed)<br/> <input type="checkbox"/> Adjustable – Center Area (socks)<br/> <input type="checkbox"/> Self-Supporting (Suspended)</p> |   |

**TABLE 108.8 – CHEMICAL DATA INFORMATION**

Use a separate form for each chemical not in the current version of AP-42 Section 7.1 "Organic Liquid Storage Tanks".

**Section I: Chemical Information**

Chemical Name \_\_\_\_\_

CAS Number \_\_\_\_\_

Category:

- Crude Oil
- Petroleum Distillates
- Organic Liquids

Liquid Molecular Weight \_\_\_\_\_

Vapor Molecular Weight \_\_\_\_\_

Liquid Density (lb/gal @ 60°F) \_\_\_\_\_

**Section II: Vapor Pressure Information**

Note: Fill in one or more of the following options completely

Option 1: Enter Vapor Pressure (psia) for each temperature:

40°F _____	80°F _____
50°F _____	90°F _____
60°F _____	100°F _____
70°F _____	

Option 2: Constants for Antoine's Equation (using Celsius)

A \_\_\_\_\_ B \_\_\_\_\_ C \_\_\_\_\_

Option 3: Constants for Antoine's Equation (using Kelvin)

A \_\_\_\_\_ B \_\_\_\_\_ C \_\_\_\_\_

Option 4: Reid Vapor Pressure (psia): \_\_\_\_\_  
(Petroleum Only)

If the Reid Vapor Pressure (RVP) of the product stored varies over the course of the year, identify the typical dates of storage for each RVP designation.

Reid Vapor Pressures:	Storage Dates:
_____ psia	From: _____ To: _____
_____ psia	From: _____ To: _____
_____ psia	From: _____ To: _____
_____ psia	From: _____ To: _____

Name of person preparing application \_\_\_\_\_

Title \_\_\_\_\_ Phone Number \_\_\_\_\_

Signature \_\_\_\_\_ Date \_\_\_\_\_