

**Texas Commission on Environmental Quality
Table 7(c)
External Floating Roof Storage Tank Summary**

Applicant's Full Name	
I. Tank Identification <i>(Use a separate form for each tank).</i>	
Location <i>(indicate on plot plan and provide coordinates)</i>	
Tank No.:	
Emission Point No. (EPN) <i>(from flow diagram):</i>	
Facility Identification Number (FIN):	
Control Identification Number (CIN):	
Status of the tank	
<input type="checkbox"/> New Tank <input type="checkbox"/> Altered Tank <input type="checkbox"/> Relocation <input type="checkbox"/> Change of Service	
Previous Permit No.:	
Previous Permit by Rule No.:	
Previous Exemption No.:	
II. Tank Physical Characteristics	
Dimensions of the Tank	
Shell Height <i>(ft.)</i> :	
Maximum Liquid Height <i>(ft.)</i> :	
Diameter <i>(ft.)</i> :	
Nominal Capacity or Tank Volume <i>(gallons)</i> :	
Turnovers per year:	
Net Throughput <i>(gallons/year)</i> :	
Maximum Pumping Rate <i>(gallons/hour¹)</i> :	
Shell and Paint Characteristics	
Shell Condition	
<input type="checkbox"/> Light Rust <input type="checkbox"/> Dense Rust <input type="checkbox"/> Gunite Lining	
Paint Color/Shade	
<input type="checkbox"/> White/White <input type="checkbox"/> Aluminum/Specular <input type="checkbox"/> Aluminum/Diffuse <input type="checkbox"/> Gray/Light <input type="checkbox"/> Gray/Medium <input type="checkbox"/> Red/Primer <input type="checkbox"/> Other <i>(Describe)</i> :	

¹ Use the higher of the maximum fill rate or maximum withdrawal rate.

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II. Tank Physical Characteristics (continued)		
Paint Condition.		
<input type="checkbox"/> Good	<input type="checkbox"/> Poor	
Tank Construction and Rim-Seal System		
Tank Construction		
<input type="checkbox"/> Welded	<input type="checkbox"/> Riveted	
Primary Seal		
<input type="checkbox"/> Vapor-mounted	<input type="checkbox"/> Liquid-mounted	<input type="checkbox"/> Mechanical Shoe
Secondary Seal:		
<input type="checkbox"/> Rim-mounted	<input type="checkbox"/> Shoe-mounted	<input type="checkbox"/> None
Roof Type		
<input type="checkbox"/> Pontoon	<input type="checkbox"/> Double Deck	
Roof Fitting Loss Factor (lb-mole/year):		
Based Upon		
<input type="checkbox"/> Typical Fittings	<input type="checkbox"/> Controlled Fittings	<input type="checkbox"/> Actual Fittings
<i>Complete Section IV, Fittings Information, to record fittings count used to calculate the roof fitting loss factor.</i>		
III. Liquid Properties of Stored Material		
Chemical Category		
<input type="checkbox"/> Organic Liquids	<input type="checkbox"/> Petroleum Distillates	<input type="checkbox"/> Crude Oils
Single (<i>complete Section III.1.</i>) or Multi-Component Liquid (<i>complete Section III.2.</i>)		
<input type="checkbox"/> Single	<input type="checkbox"/> Multiple	
1. Single Component Information		
Chemical Name:		
Average Liquid Surface Temperature (°F):		
True Vapor Pressure at Average Liquid Surface Temperature (psia):		
Liquid Molecular Weight:		

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III. Liquid Properties of Stored Material (continued)				
2. Multiple Component Information				
Mixture Name:				
Average Liquid Surface Temperature (°F):				
Minimum Liquid Surface Temperature (°F):				
Maximum Liquid Surface Temperature (°F):				
True Vapor Pressure at Average Liquid Surface Temperature (psia):				
True Vapor Pressure at Minimum Liquid Surface Temperature (psia):				
True Vapor Pressure at Maximum Liquid Surface Temperature (psia):				
Liquid Molecular Weight:				
Vapor Molecular Weight:				
Chemical Components Information (Below)				
Chemical Name	CAS Number	Percent of Total Liquid Weight (typical)	Percent of Total Vapor Weight (typical)	Molecular Weight
Permit No.:				
Tank No.:				

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IV. Fitting Information				
Fitting Type⁽¹⁾	Fitting Status	Quantity	Deck Fitting Loss Factor $K_F^{(2)(3)}$	Quantity x K_F
Access Hatch	Bolted Cover, Gasketed			
Access Hatch	Unbolted Cover, Ungasketed			
Access Hatch	Unbolted Cover, Gasketed			
Column Well	Round Pipe - Sliding Cover, Ungasketed			
Column Well	Round Pipe - Sliding Cover, Gasketed			
Column Well	Round Pipe - Flex. Fabric Sleeve Seal			
Column Well	Built-Up Col. - Sliding Cover, Ungask.			
Column Well	Built-Up Col. - Sliding Cover, Gasketed			
Unslotted Guidepole and Well	Sliding Cover, Ungasketed			
Unslotted Guidepole and Well	Sliding Cover, Ungasketed w/Pole Sleeve			
Unslotted Guidepole and Well	Sliding Cover, Gasketed			
Unslotted Guidepole and Well	Sliding Cover, Gasketed w/Pole Wiper			
Unslotted Guidepole and Well	Sliding Cover, Gasketed w/Pole Sleeve			
Slotted Guidepole/Sample Well	Ungasketed or Gasketed Sliding Cover			
Slotted Guidepole/Sample Well	Ungask. or Gask. Sliding Cover w/Float			
Slotted Guidepole/Sample Well	Gasketed Sliding Cover, w/Pole Wiper			
Slotted Guidepole/Sample Well	Gasketed Sliding Cover, w/Pole Sleeve			
Slotted Guidepole/Sample Well	Gasketed Sliding Cover, w/Pole Wiper and Sleeve			
Slotted Guidepole/Sample Well	Gasketed Sliding Cover, w/Float and Pole Wiper			

Note (1): Document any fittings not listed above in blank rows and include in total loss factor.

Note (2): Refer to current EPA AP-42 Chapter 7 for deck fitting loss factors (K_F).

Note (3): For external floating roof tanks, K_F should reflect the sum of the zero wind speed loss factor and the wind speed dependent loss factors as specified in Equation 2-7 of AP-42 Chapter 7 (November 2006 Edition).

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IV. Fitting Information (continued)				
Fitting Type⁽¹⁾	Fitting Status	Quantity	Deck Fitting Loss Factor $K_F^{(2)(3)}$	Quantity x K_F
Slotted Guidepole/Sample Well	Gasketed Sliding Cover, w/Float, Pole Wiper, and Pole Sleeve			
Slotted Guidepole/Sample Well	Flexible Enclosure			
Automatic Gauge Float Well	Unbolted Cover, Ungasketed			
Automatic Gauge Float Well	Unbolted Cover, Gasketed			
Automatic Gauge Float Well	Bolted Cover, Gasketed			
Gauge Hatch/Sample Port	Gasketed, Weighted Mech. Actuation			
Gauge Hatch/Sample Port	Ungasketed, Weighted Mech. Actuation			
Gauge Hatch/Sample Port	Slit Fabric Seal, 10% Open Area			
Vacuum Breaker	Ungasketed, Weighted Mech. Actuation			
Vacuum Breaker	Gasketed, Weighted Mech. Actuation			
Deck Drain	Open			
Deck Drain	90% Closed			
Deck Drain	Stub Drain (1-inch Diameter)			
Deck Leg – Pontoon Area of Pontoon Roof	Ungasketed			
Deck Leg – Pontoon Area of Pontoon Roof	Gasketed			
Deck Leg – Pontoon Area of Pontoon Roof	Sock			
Deck Leg – Double Deck Roof and Center Area of Pontoon	Ungasketed			
Deck Leg – Double Deck Roof and Center Area of Pontoon	Gasketed			

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Deck Leg – Double Deck Roof and Center Area of Pontoon	Sock			
Deck Leg or Hanger (no opening)	Fixed			
Rim Vent	Ungasketed, Weighted Mech. Actuation			
Rim Vent	Gasketed, Weighted Mech. Actuation			
Ladder Well	Sliding Cover, Ungasketed			
Ladder Well	Sliding Cover, Gasketed			
Ladder-Guidepole Combo Well	Sliding Cover, Ungasketed			
Ladder-Guidepole Combo Well	Ladder Sleeve, Ungasketed Sliding Cover			
Ladder-Guidepole Combo Well	Ladder Sleeve, Gasketed Sliding Cover			
Total deck fitting loss factor, lb-mole/year				

Note (1): Document any fittings not listed above in blank rows and include in total loss factor.
 Note (2): Refer to current EPA AP-42 Chapter 7 for deck fitting loss factors (K_F).
 Note (3): For external floating roof tanks, K_F should reflect the sum of the zero wind speed loss factor and the wind speed dependent loss factors as specified in Equation 2-7 of AP-42 Chapter 7 (November 2006 Edition).