

**Texas Commission on Environmental Quality  
Table 7(d)  
Internal Floating Roof Storage Tank Summary**

<b>Applicant's Full Name</b>	
<b>I. Tank Identification</b> <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.:	
<b>II. Tank Physical Characteristics</b>	
Dimensions of the Tank	
Shell Height (ft.):	
Diameter (ft.):	
Normal Capacity or Tank Volume (gallons):	
Turnovers per year:	
Net Throughput (gallons/year):	
Maximum Pumping Rate (gallons/hour <sup>1</sup> ):	
Self-Supporting Roof:	<input type="checkbox"/> YES <input type="checkbox"/> NO
Numbers of Columns:	
Column Diameter (ft.):	

<sup>1</sup> Use the higher of the maximum fill rate or maximum withdrawal rate.

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<b>II. Tank Physical Characteristics (continued)</b>	
Shell /Roof and Paint Characteristics	
Shell Condition	
<input type="checkbox"/> Light Rust	<input type="checkbox"/> Dense Rust
<input type="checkbox"/> Gunite Lining	
Shell 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> ):	
Shell Condition	
<input type="checkbox"/> Good	<input type="checkbox"/> Poor
Roof 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> ):	
Roof Condition	
<input type="checkbox"/> Good	<input type="checkbox"/> Poor
Rim-Seal System	
Primary Seal	
<input type="checkbox"/> Vapor-mounted	<input type="checkbox"/> Liquid-mounted
<input type="checkbox"/> Mechanical Shoe	
Secondary Seal:	<input type="checkbox"/> YES <input type="checkbox"/> NO
Deck Characteristic	
Deck Type	
<input type="checkbox"/> Bolted	<input type="checkbox"/> Welded
Deck Construction ( <i>Bolted Tanks Only</i> )	
<input type="checkbox"/> Continuous Sheet Construction 5 ft. wide	
<input type="checkbox"/> Continuous Sheet Construction 6 ft. wide	
<input type="checkbox"/> Continuous Sheet Construction 7 ft. wide	
<input type="checkbox"/> Rectangular Panel Construction 5 X 7.5 ft. wide	
<input type="checkbox"/> Rectangular Panel Construction 5 X 12 ft. wide	

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<b>II. Tank Physical Characteristics (continued)</b>	
Deck Seam Length ( <i>Bolted Tanks Only</i> ) (ft.)	
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>	
<b>III. Liquid Properties of Stored Material</b>	
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:	
Chemical Abstract Service (CAS) No.	
Average Liquid Surface Temperature (°F):	
True Vapor Pressure at Average Liquid Surface Temperature (psia):	
Liquid Molecular Weight:	
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:	



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<b>IV. Fitting Information</b>				
<b>Fitting Type<sup>(1)</sup></b>	<b>Fitting Status</b>	<b>Quantity</b>	<b>Deck Fitting Loss Factor K<sub>F</sub><sup>(2)</sup></b>	<b>Quantity x K<sub>F</sub></b>
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			
Slotted Guidepole/Sample Well	Gasketed Sliding Cover, w/Float, Pole Wiper, and Pole Sleeve			
Slotted Guidepole/Sample Well	Flexible Enclosure			

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<sub>F</sub>).

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<b>IV. Fitting Information (continued)</b>				
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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			
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			

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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<sub>F</sub>).