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

I. Tank Identification ***(Use a separate form for each tank).***			
Applicant's Name:			
Location (*indicate on plot plan and provide coordinates*)			
Tank No.:	Emission Point No. (EPN) *(from flow diagram)*:		
FIN:	CIN:		
Status: ☐ New Tank	☐ Altered Tank	☐ Relocation	☐ Change of Service
Previous Permit No., Permit by Rule No., or exemption number(s):			
II. Tank Physical Characteristics			
Dimensions			
Shell Height (*ft.*):	Diameter (*ft.*):		
Normal Capacity of Tank Volume (*gallons*):			
Turnovers per year:	Net Throughput (*gallons/year*):		
Maximum Pumping Rate (*gallons/year*[1]):			
Self-Supporting Roof:			☐ YES ☐ NO
Number of Columns:	Column Diameter:		ft.
Shell/Roof and Paint Characteristics			
Shell Condition:	☐ Light Rust	☐ Dense Rust	☐ Gunite Lining
Shell Color/Shade:	☐ White/White	☐ Aluminum/Specular	☐ Aluminum/Diffuse
☐ Gray/Light	☐ Gray/Medium	☐ Red/Primer	☐ Other
Describe:			
Shell Condition:	☐ Good	☐ Poor	
Roof Color/Shade:	☐ White/White	☐ Aluminum/Specular	☐ Aluminum/Diffuse
☐ Gray/Light	☐ Gray/Medium	☐ Red/Primer	☐ Other
Describe:			
Roof Condition:	☐ Good	☐ Poor	
Rim-Seal System			
Primary Seal:	☐ Vapor-mounted	☐ Liquid-mounted	☐ Mechanical Shoe
Secondary Seal:			☐ YES ☐ NO
Deck Characteristic			
Deck Type:	☐ Bolted	☐ Welded	

[1] *Use the higher of the maximum fill rate or maximum withdrawal rate.*

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II. Tank Physical Characteristics	
Deck Characteristic *(continued)*	
Deck Construction (*Bolted Tanks Only):*	
☐ Continuous Sheet Construction 5 ft. wide	
☐ Continuous Sheet Construction 6 ft. wide	
☐ Continuous Sheet Construction 7 ft. wide	
☐ Rectangular Panel Construction 5 X 7.5 ft. wide	
☐ Rectangular Panel Construction 5 X 12 ft. wide	
Deck Seam Length (*Bolted Tanks Only*) (*ft.*):	
Roof Fitting Loss Factor (*lb-mole/year*):	
Based upon: ☐ Typical ☐ Controlled ☐ Actual Fittings	
Complete Section IV. "Fittings Information" to recorded fittings count used to calculate the roof fitting loss factor.	
III. Liquid Properties of Stored Material	
Chemical Category: ☐ Organic Liquids ☐ Petroleum Distillates ☐ Crude Oils	
Single or Multi-Category: ☐ Single *(Complete Section III. 1)* ☐ Multiple *(Complete Section III. 2)*	
1. Single Component Information	
Chemical Name:	
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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III. Liquid Properties of Stored Material				
Chemical Components Information *(Below)*				
Chemical Name	**CAS No.**	**Percent of Total Liquid Weight *(typical)***	**Percent of Total Vapor Weight *(typical)***	**Molecular Weight**

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IV. Fitting Information				
Fitting Type	**Fitting Status**	**Quantity**	**Deck Fitting Loss Factor K_F**	**Quality x K_F**
Access Hatch (24-in. Diam.)	Bolted Cover, Gasketed		1.6	
Access Hatch (24-in. Diam.)	Unbolted Cover, Gasketed		11	
Access Hatch (24-in. Diam.)	Unbolted Cover, Ungasketed		25	
Automatic Gauge Float Well	Bolted Cover, Gasketed		5.1	
Automatic Gauge Float Well	Unbolted Cover, Gasketed		15	
Automatic Gauge Float Well	Unbolted Cover, Ungasketed		28	
Column Well (24-in.Diam.)	Built-Up Col. - Sliding Cover, Gask		33	
Column Well (24-in.Diam.)	Built-Up Col. - Sliding Cover, Ungask		47	
Column Well (24-in.Diam.)	Pipe Col. - Flex. Fabric Sleeve Seal		10	
Column Well (24-in.Diam.)	Pipe Col. - Sliding Cover, Gask		19	
Column Well (24-in.Diam.)	Pipe Col. - Sliding Cover, Ungask		32	
Ladder Well (36-in. Diam.)	Sliding Cover, Ungasketed		76	
Ladder Well (36-in. Diam.)	Sliding Cover, Gasketed		56	
Roof Leg or Hanger Well	Adjustable		7.9	
Roof Leg or Hanger Well	Fixed		0	
Sample Pipe or Well (24-in. Diam.)	Slit Fabric Seal 10% Open		12	
Sample Pipe or Well (24-in. Diam.)	Slotted Pipe-Sliding Cover, Gask		44	
Sample Pipe or Well (24-in. Diam.)	Slotted Pipe-Sliding Cover, Ungask		57	
Stub Drain (1-in. Diam.)			1.2	
Vacuum Breaker (10-in. Diam.)	Weighted Mech. Actuation, Gask		07	
Vacuum Breaker (10-in. Diam.)	Weighted Mech. Actuation, Ungask		0.9	
			Total deck fitting loss factor, lb-mole/year	

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