



AIR PERMIT ROUTING/APPROVAL SLIP-Permits

8-17-17



AI No.	32798	Company	Shell Pipeline Co LP	Date Received	2/27/17
Activity No.	PER20170001	Facility	Shell Pipeline Co LP - Sugarland	Permit Type	
CDS No.	2560-00034	Permit No.	2560-00034-V9	Expedited Permit	<input type="checkbox"/> yes <input checked="" type="checkbox"/> no

1. Technical Review	Approved	Date rec'd	Date FW	Comments
Permit Writer	<i>CMM</i>	<i>2/28/17</i>	<i>5/8/17</i>	<i>Significant Mod. Needs PN</i>
Air Quality / Modeling				
Toxics				
Technical Advisor	<i>Dan</i>		<i>5/12/17</i>	
Supervisor				
Other				
2. Management Review (if PN req'd)	Approved	Date rec'd	Date FW	Comments
Supervisor				
Manager	<i>AMT</i>		<i>6/5/17</i>	<i>BDJ, 6/5/17 process as sig.mod.</i>
Assistant Secretary (PN)	<i>BDJ</i>		<i>6/9/17</i>	
3. Response to Comments (if PN req'd)	Approved	Date rec'd	Date FW	Comments
Supervisor				
Manager				
Administrator				
Legal (BFD)				
4. Final Approval	Approved	Date rec'd	Date FW	Comments
Supervisor				
Manager	<i>AMT</i>		<i>8/8/17</i>	<i>No comments received</i>
Administrator	<i>BDJ</i>		<i>8/8/17</i>	
Assistant Secretary	<i>AMT</i>		<i>8/16/17</i>	

1. Technical Review					
PN of App needed	<input type="checkbox"/> yes <input checked="" type="checkbox"/> no	Date of PN of App		Newspaper	
Fee paid	<input checked="" type="checkbox"/> yes <input type="checkbox"/> no				
NSPS applies	<input checked="" type="checkbox"/> yes <input type="checkbox"/> no	PSD/NNSR applies	<input type="checkbox"/> yes <input checked="" type="checkbox"/> no	NESHAP applies	<input checked="" type="checkbox"/> yes <input type="checkbox"/> no

2. Post-Technical Review					
Company technical review	<input checked="" type="checkbox"/> yes <input type="checkbox"/> no <input type="checkbox"/> n/a	E-mail date	<i>5/15/17</i>	Remarks received	<input checked="" type="checkbox"/> yes <input type="checkbox"/> no
Surveillance technical review	<input checked="" type="checkbox"/> yes <input type="checkbox"/> no <input type="checkbox"/> n/a	E-mail date	<i>5/15/17</i>	Remarks received	<input type="checkbox"/> yes <input checked="" type="checkbox"/> no

3. Public Notice					
Public Notice Required	<input checked="" type="checkbox"/> yes <input type="checkbox"/> no				
Library					
PN newspaper 1/City	<i>The Advocate/Baton Rouge</i>	PN Date	<i>6/21/17</i>	EDMS Verification	<input type="checkbox"/> yes <input type="checkbox"/> no
PN newspaper 2/City	<i>LDEQ website</i>	PN Date	<i>6/21/17</i>	EDMS Verification	<input type="checkbox"/> yes <input type="checkbox"/> no
Company notification letter sent	Date mailed	<i>6/14/17</i>			
EPA PN notification e-mail sent	Date e-mailed	<i>6/14/17</i>			
OES PN mailout	Date	<i>6/20/17</i>			

4. Final Review					
Public comments received	<input type="checkbox"/> yes <input checked="" type="checkbox"/> no	EPA comments rec'd	<input type="checkbox"/> yes <input checked="" type="checkbox"/> no	Date EPA Resp. to Comments-mailed	
Company comments received	<input type="checkbox"/> yes <input checked="" type="checkbox"/> no	PN info entered into Permit Sec VI	<input type="checkbox"/> yes <input type="checkbox"/> no	Date EPA approved permit	<i>8/4/17</i>
Comments					

JOHN BEL EDWARDS
GOVERNOR



CHUCK CARR BROWN, PH.D.
SECRETARY

State of Louisiana
DEPARTMENT OF ENVIRONMENTAL QUALITY
ENVIRONMENTAL SERVICES

Certified Mail No. 7016 3010 0000 9387 9666

Activity No.: PER20170001
Agency Interest No. 32798

Mr. Greg G. Smith
GM Operations
Shell Pipeline Company, L.P.
701 Poydras St
Suite 1000
New Orleans, LA 70139

RE: Part 70 Operating Permit, Sugarland Pipeline Station/Terminal, Shell Pipeline Company, LP
St. James, St. James Parish, Louisiana

Dear Mr. Smith:

This is to inform you that the permit modification for the above referenced facility has been approved under LAC 33:III.501. The permit is both a state preconstruction and Part 70 Operating Permit. The submittal was approved on the basis of the emissions reported and the approval in no way guarantees the design scheme presented will be capable of controlling the emissions as to the types and quantities stated. A new application must be submitted if the reported emissions are exceeded after operations begin. The synopsis, data sheets and conditions are attached herewith.

It will be considered a violation of the permit if all proposed control measures and/or equipment are not installed and properly operated and maintained as specified in the application.

Operation of this facility is hereby authorized under the terms and conditions of this permit. This authorization shall expire at midnight on the 19TH of March, 2020, unless a timely and complete renewal application has been submitted six months prior to expiration. Terms and conditions of this permit shall remain in effect until such time as the permitting authority takes final action on the application for permit renewal. The permit number and agency interest number cited above should be referenced in future correspondence regarding this facility.

Please be advised that pursuant to provisions of the Environmental Quality Act and the Administrative Procedure Act, the Department may initiate review of a permit during its term. However, before it takes any action to modify, suspend or revoke a permit, the Department shall, in accordance with applicable statutes and regulations, notify the permittee by mail of the facts or operational conduct that warrant the intended action and provide the permittee with the opportunity to demonstrate compliance with all lawful requirements for the retention of the effective permit.

Done this 16TH day of August, 2017.

Permit No.: 2560-00034-V9

Sincerely,

A handwritten signature in black ink, appearing to read "Elliott B. Vega".

Elliott B. Vega
Assistant Secretary
EBV:CMM
c: EPA Region VI

AIR PERMIT BRIEFING SHEET
AIR PERMITS DIVISION
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

Shell Pipeline Co LP - Sugarland Pipeline Station/Terminal
Agency Interest No.: 32798
Shell Pipeline Co LP
St. James, St. James Parish, Louisiana

I. Background

The United States Department of Energy owns and Shell Pipeline Company LP operates the Sugarland Pipeline Station/Terminal near St. James, St. James Parish, an existing crude oil terminal. The Shell Pipeline Co LP - Sugarland Pipeline Station/Terminal operated under Permit No. 2560-00034-V8, issued November 3, 2016.

This is the Part 70 operating permit for the facility.

II. Origin

A permit application and Emission Inventory Questionnaire dated February 24, 2017, were submitted by Shell Pipeline Co. LP requesting a Part 70 operating permit modification.

III. Description

The Sugarland Pipeline Station/Terminal is a crude oil storage and transfer station. Crude oil from pipelines, tankers, and barges are received, temporarily stored at the Sugarland Terminal, and then transferred to other pipelines, ships, or barges. Sources of emissions include storage tanks, ship/barge loading, fugitives, a fire water pump engine, and a generator engine. There are also four non-operational engines on-site. The hours of operation for these sources have been removed along with all specific requirements.

Crude Oil Storage Tanks

Crude oil storage tanks are used for the storage of crude oils of varying Reid vapor pressure (RVP). Emissions are conservatively based on an average RVP of 10.5. All crude oil storage tank emissions are capped under the Crude Oil Storage Tanks Mass Emission Cap.

Ship/Barge Loading Operations

Crude oil may leave the Sugarland Terminal after being loaded onto ships or barges. Emissions from ship and barge loading activities occur at docks 1 and 2.

Fugitives

Fugitive emissions are the result of emissions from components and piping utilized at the Sugarland Terminal. Emissions are based on an actual component count.

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Shell Pipeline Co LP
St. James, St. James Parish, Louisiana**

Shell Pipeline Company is proposing to reestablish exceedance and excursion levels for the Marine Vapor Combustion Unit, Emission Point No. VCU (EQT 030). Shell is requesting to use temperature in lieu of oxygen in order to demonstrate compliance with 40 CFR 64 – Compliance Assurance Monitoring (CAM).

Estimated emissions in tons per year are as follows:

<u>Pollutant</u>	<u>Before</u>	<u>After</u>	<u>Change</u>
PM ₁₀	1.80	1.80	-
PM _{2.5}	1.80	1.80	-
SO ₂	0.09	0.09	-
NO _x	16.74	16.74	-
CO	84.67	84.67	-
VOC*	166.81	166.81	-

*VOC LAC 33:III Chapter 51 Toxic Air Pollutants (TAPs):

<u>Pollutant</u>	<u>Before</u>	<u>After</u>	<u>Change</u>
Benzene	0.06	0.06	-
Ethylbenzene	0.03	0.03	-
Formaldehyde	0.63	0.63	-
n-Hexane	3.35	3.35	-
Methyl Tertiary Butyl Ether	0.01	0.01	-
Toluene	0.09	0.09	-
2,2,4-Trimethylpentane	0.01	0.01	-
Xylenes	0.09	0.09	-
Total	4.27	4.27	-
Other VOC	162.54	162.54	-

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**Shell Pipeline Co LP - Sugarland Pipeline Station/Terminal
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Shell Pipeline Co LP
St. James, St. James Parish, Louisiana**

IV. Type of Review

This permit was reviewed for compliance with 40 CFR 70, the Louisiana Air Quality Regulations, New Source Performance Standards (NSPS), and National Emission Standards for Hazardous Air Pollutants (NESHAP). Prevention of Significant Deterioration (PSD) does not apply.

This facility is a minor source of toxic air pollutants (TAPs) pursuant to LAC 33:III.Chapter 51 and an area source under 40 CFR 63 Subpart ZZZZ.

There are two other existing facilities which are contiguous with this facility under Shell Pipeline's control:

Facility Name	AI Number	Coordinates	Potential Emission Rates (tons/year)						
			PM ₁₀	PM _{2.5}	SO ₂	NO _x	CO	VOC	HAPs
St. James Pipeline Station	AI No. 99299	30 00 24.53 90 51 37.65	-	-	-	-	-	0.20	0.02
Sugarland Terminal	This facility	30 00 28.89 90 51 22.03	1.80	1.80	0.09	16.74	84.67	166.81	4.27
Total Emissions			1.80	1.80	0.09	16.74	84.67	167.01	4.29

V. Credible Evidence

Notwithstanding any other provisions of any applicable rule or regulation or requirement of this permit that state specific methods that may be used to assess compliance with applicable requirements, pursuant to 40 CFR Part 70 and EPA's Credible Evidence Rule, 62 Fed. Reg. 8314 (Feb. 24, 1997), any credible evidence or information relevant to whether a source would have been in compliance with applicable requirements if the appropriate performance or compliance test or procedure had been performed shall be considered for purposes of Title V compliance certifications. Furthermore, for purposes of establishing whether or not a person has violated or is in violation of any emissions limitation or standard or permit condition, nothing in this permit shall preclude the use, including the exclusive use, by any person of any such credible evidence or information.

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Shell Pipeline Co LP - Sugarland Pipeline Station/Terminal
Agency Interest No.: 32798
Shell Pipeline Co LP
St. James, St. James Parish, Louisiana

VI. Public Notice

In accordance with LAC 33:III.531.A.3, a notice requesting public comment on the proposed permit was published on the department's website on June 21, 2017. On June 20, 2017, copies of the public notice were mailed to the individuals who have requested to be placed on the mailing list maintained by the Office of Environmental Services (OES). The proposed permit was submitted to EPA on June 14, 2017. No comments were received.

VII. Effects on Ambient Air

Emissions associated with the proposed modification were reviewed by LDEQ to ensure compliance with the NAAQS and AAS. LDEQ did not require the applicant to model emissions.

VIII. General Condition XVII Activities

Work Activity	Schedule	PM ₁₀	Emission Rates – tons			
			SO ₂	NO _x	CO	VOC
Sampling Procedures	Weekly	-	-	-	-	0.01
Pump Preparation	Annually	-	-	-	-	0.01
Line Preparation	Annually	-	-	-	-	0.01
Filter Replacement	Semiannually	-	-	-	-	0.01
Instrumentation Mechanical Work	Annually	-	-	-	-	0.01
Shop Work on Unit Equipment	Weekly	-	-	-	-	0.01
Safety Inspection/Check Pressure/Vacuum Vents and Tanks	Monthly	-	-	-	-	0.01
Tank Gauging	Monthly	-	-	-	-	0.02
Evacuation of Loading Lines	Weekly	-	-	-	-	0.04
Vessel Preparation	-	-	-	-	-	0.01
Valve	Annually	-	-	-	-	0.01

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Shell Pipeline Co LP - Sugarland Pipeline Station/Terminal
Agency Interest No.: 32798
Shell Pipeline Co LP
St. James, St. James Parish, Louisiana

Work Activity	Schedule	PM ₁₀	Emission Rates – tons			
			SO ₂	NO _x	CO	VOC
Valve Maintenance	Annually	-	-	-	-	0.01

IX. Insignificant Activities

ID	Description	Volume/Max Operating Rate	Citation
-	Lube Oil Drums	55 gallons	LAC 33:III.501.B.5.A.2
-	Antifreeze Drums	55 gallons	LAC 33:III.501.B.5.A.2
-	Diesel Storage Tanks (2)	200 gallons	LAC 33:III.501.B.5.A.2
-	Diesel Storage Tank	600 gallons	LAC 33:III.501.B.5.A.3
-	Diesel Storage Tank	350 gallons	LAC 33:III.501.B.5.A.3
-	Diesel Storage Tank	1000 gallons	LAC 33:III.501.B.5.A.3
-	Diesel Storage Tank	1200 gallons	LAC 33:III.501.B.5.A.3
-	Diesel Storage Tank	2400 gallons	LAC 33:III.501.B.5.A.3
-	Corrosion Inhibitor Storage Tanks (2)	200 gallons	LAC 33:III.501.B.5.A.2
-	Hydraulic Oil Storage Tanks (2)	30 gallons	LAC 33:III.501.B.5.A.2
-	Mineral Spirits Tank	550 gallons	LAC 33:III.501.B.5.A.3
-	Corrosion Inhibitor Storage Totes (6)	400 gallons	LAC 33:III.501.B.5.A.3
-	Corrosion Inhibitor Storage Totes (4)	200 gallons	LAC 33:III.501.B.5.A.3
-	Corrosion Inhibitor Storage Tote	550 gallons	LAC 33:III.501.B.5.A.3
-	Pig Catcher Basins (2)	<250 gallons	LAC 33:III.501.B.5.A.2
-	Laboratory Vent	-	LAC 33:III.501.B.5.A.6
112	Sump 112	564 gallons	LAC 33:III.501.B.5.A.3
113	Sump 113	564 gallons	LAC 33:III.501.B.5.A.3
114	Sump 114	564 gallons	LAC 33:III.501.B.5.A.3
115	Sump 115	404 gallons	LAC 33:III.501.B.5.A.3
116	Sump 116	404 gallons	LAC 33:III.501.B.5.A.3

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

Shell Pipeline Co LP - Sugarland Pipeline Station/Terminal

Agency Interest No.: 32798

Shell Pipeline Co LP

St. James, St. James Parish, Louisiana

X. Table 1. Applicable Louisiana and Federal Air Quality Requirements		LAC 33:III.Chapter																		
		2	5 [▲]	9	11	13	15	2103	2104*	2107	2108	2111	2113	2116*	22	29*	51*	53*	56	59*
UNF1	Sugarland Pipeline Station/Terminal	1	1	1	1							1			1				1	
EQT004	1-78 - Crude Oil Storage Tank							1												
EQT005	2-78 - Crude Oil Storage Tank							1												
EQT006	3-78 - Crude Oil Storage Tank							1												
EQT007	4-78 - Crude Oil Storage Tank							1												
EQT008	5-78 - Crude Oil Storage Tank							1												
EQT009	6-78 - Crude Oil Storage Tank							1												
EQT017	7-78 - Crude Oil Loading Dock 1																			
EQT018	8-78 - Crude Oil Loading Dock 2									3										
EQT019	18-78 - Gasoline Storage Tank							1												
EQT020	19-78 - Fire Pump Engine (238 hp)				3	3	3													
EQT021	20-78 - Fire Pump Engine (1020 hp)				3	3	3													
EQT022	21-78 - Fire Pump Engine (231 hp)				1	1	3													
EQT023	22-78 - Generator Engine (39 hp)				3	3	3													
EQT024	23-78 - Generator Engine (560 hp)				1	1	3													
EQT025	24-78 - Generator Engine (175 hp)				3	3	3													
EQT027	TLO-1 – Tank Landing Operations		1																	
EQT028	TCO-1 – Tank Cleaning Operations		1																	
EQT030	VCU – Marine Vapor Combustion Unit (Dock 1)				1	1	3			1										

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

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X. Table 1. Applicable Louisiana and Federal Air Quality Requirements		LAC 33:III.Chapter																		
		2	5 [▲]	9	11	13	15	2103	2104*	2107	2108	2111	2113	2116*	22	29*	51*	53*	56	59*
GRP002	TANKCAP – Crude Oil Storage Tank Mass Emission Cap		1																	
FUG001	9-78 - Fugitives Emissions										1									

* The regulations indicated above are State Only regulations.

▲ All LAC 33:III Chapter 5 citations are federally enforceable including LAC 33:III.501.C.6 citations, except when the requirement found in the “Specific Requirements” report specifically states that the regulation is State Only.

KEY TO MATRIX

- 1 -The regulations have applicable requirements that apply to this particular emission source.
 -The emission source may have an exemption from control stated in the regulation. The emission source may not have to be controlled but may have monitoring, recordkeeping, or reporting requirements.
 - 2 -The regulations have applicable requirements that apply to this particular emission source but the source is currently exempt from these requirements due to meeting a specific criterion, such as it has not been constructed, modified or reconstructed since the regulations have been in place. If the specific criteria changes the source will have to comply at a future date.
 - 3 -The regulations apply to this general type of emission source (i.e. vents, furnaces, towers, and fugitives) but do not apply to this particular emission source.
- Blank – The regulations clearly do not apply to this type of emission source.

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

Shell Pipeline Co LP - Sugarland Pipeline Station/Terminal

Agency Interest No.: 32798

Shell Pipeline Co LP

St. James, St. James Parish, Louisiana

X. Table 1. Applicable Louisiana and Federal Air Quality Requirements																						
ID No.:	Description	40 CFR 60 NSPS									40 CFR 61			40 CFR 63 NESHAP					40 CFR			
		A	K	Ka	Kb	Db	Dc	GG	III	JJJ	A	J	V	A	F	G	H	Z	C	64	68	70
UNF1	Sugarland Pipeline Station/Terminal	1											1								1	
EQT004	1-78 - Crude Oil Storage Tank			1																		
EQT005	2-78 - Crude Oil Storage Tank			1																		
EQT006	3-78 - Crude Oil Storage Tank			1																		
EQT007	4-78 - Crude Oil Storage Tank			1																		
EQT008	5-78 - Crude Oil Storage Tank			1																		
EQT009	6-78 - Crude Oil Storage Tank			1																		
EQT017	7-78 - Crude Oil Loading Dock 1																					
EQT018	8-78 - Crude Oil Loading Dock 2																					
EQT019	18-78 - Gasoline Storage Tank		3	3	3													1				
EQT020	19-78 - Fire Pump Engine (238 hp)								3									3				
EQT021	20-78 - Fire Pump Engine (1020 hp)								3									3				
EQT022	21-78 - Fire Pump Engine (231 hp)								3									1				
EQT023	22-78 - Generator Engine (39 hp)								3									3				

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

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X. Table 1. Applicable Louisiana and Federal Air Quality Requirements																							
ID No.:	Description	40 CFR 60 NSPS									40 CFR 61			40 CFR 63 NESHAP					40 CFR				
		A	K	Ka	Kb	Db	Dc	GG	III	JJJ	A	J	V	A	F	G	H	Z	C	64	68	70	82
EQT024	23-78 - Generator Engine (560 hp)								3									1					
EQT025	24-78 - Generator Engine (175 hp)									3								3					
EQT027	TLO-1 – Tank Landing Operations																						
EQT028	TCO-1 – Tank Cleaning Operations																						
EQT030	VCU – Marine Vapor Combustion Unit (Dock 1)																			1			
GRP002	TANKCAP – Crude Oil Storage Tank Mass Emission Cap																						
FUG001	9-78 - Fugitives Emissions																						

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

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- 1 -The regulations have applicable requirements that apply to this particular emission source.
-The emission source may have an exemption from control stated in the regulation. The emission source may not have to be controlled but may have monitoring, recordkeeping, or reporting requirements.
 - 2 -The regulations have applicable requirements that apply to this particular emission source but the source is currently exempt from these requirements due to meeting a specific criterion, such as it has not been constructed, modified or reconstructed since the regulations have been in place. If the specific criteria changes the source will have to comply at a future date.
 - 3 -The regulations apply to this general type of emission source (i.e. vents, furnaces, towers, and fugitives) but do not apply to this particular emission source.
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 St. James, St. James Parish, Louisiana**

XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source		
ID No:	Requirement	Notes
UNF001 Sugarland Pipeline Station/Terminal	Comprehensive Toxic Air Pollutant Emission Control LAC 33:II.Chapter 51	Does not Apply. The facility does not emit 10 tons per year or more of any toxic air pollutant or 25 tons per year or more of any combination of toxic air pollutant [LAC 33:III.5103]
EQT 18 8-78, Loading Dock No. 2	Marine Vapor Recovery LAC 33:III.2108	Does Not Apply. True Vapor Pressure less than 1.5 psia at loading temperature when loading low vapor pressure materials [LAC 33.III.2108.A]
EQT019 18-78, Gasoline Storage Tank	NSPS – Subpart K, Ka, Kb 40 CFR 60.110, 110a, 110b	Does Not Apply. The tank constructed prior to the respected date and/or capacity less than the threshold.
EQT022 and EQT024 21-78 and 23-78 Fire Pump and Generator Engines	LAC 33:III.Chapter 15 – Emission Standards for Sulfur Dioxide	Does Not Apply. Engine emissions of SO ₂ are less than 5 tons per year.
	NSPS - Subpart IIII 40 CFR 60	Does Not Apply. Engines commenced construction and were manufactured prior to applicability dates. [40 CFR 60.4200(a)]
EQT020, 21, 23, and EQT025 19-78, 20-78, 22-78, and 24- 78 Engines	LAC 33:III.1101 – Control of Air Pollution from Smoke	Does Not Apply. Engines are non-operational and out of service, but they are still located on site.

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

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Shell Pipeline Co LP

St. James, St. James Parish, Louisiana

XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source

ID No:	Requirement	Notes
(Continued)	LAC 33:III.Chapter 13 – Emission Standards for Particulate Matter	Does Not Apply. Engines are non-operational and out of service, but they are still located on site.
	LAC 33:III.Chapter 15 – Emission Standards for Sulfur Dioxide	Does Not Apply. Engines are non-operational and out of service, but they are still located on site.
	NSPS - Subpart IIII 40 CFR 60	Does Not Apply. Engines are non-operational and out of service, but they are still located on site.
	NSPS - Subpart JJJJ 40 CFR 60	Does Not Apply. Engines are non-operational and out of service, but they are still located on site.
	NESHAP – Subpart ZZZZ 40 CFR 63	Does Not Apply. Engines are non-operational and out of service, but they are still located on site.
EQT 30 VCU	LAC 33:III.Chapter 15 – Emission Standards for Sulfur Dioxide	Does Not Apply. Engine emissions of SO ₂ are less than 5 tons per year.

The above table provides explanation for both the exemption status or non-applicability of a source cited by 1, 2 or 3 in the matrix presented in Section X (Table 1) of this permit.

General Information

AI ID: 32798 Shell Pipeline Co LP - Sugarland Pipeline Station/Terminal

Activity Number: PER20170001

Permit Number: 2560-00034-V9

Air - Title V Significant Modification

Also Known As:	ID	Name	User Group	Start Date
	2209300034	AFS (EPA Air Facility System)	AFS (EPA Air Facility System)	01-01-2000
	2560-00034	Shell Pipeline Co LP - Sugarland Pipeline Station/Terminal	CDS Number	06-15-1999
	5285911	EPA EIS Facility Site ID	EPA EIS Facility Site ID	01-01-2008
	74-0895260	Federal Tax ID	Federal Tax ID	11-21-1999
	LAR000064808	Shell Pipeline Co LP - Sugarland	Hazardous Waste Notification	08-18-1980
	2560-0060	Shell Pipeline Co LP - Sugarland Pipeline Station/Terminal	Historic Emission Inventory System (EIS) ID	03-03-2004
	LAG534797	LPDES permit #	LPDES Permit #	04-29-2014
		Priority 2 Emergency Site	Priority 2 Emergency Site	07-31-2012
	10735	X-Ray Registration Number	Radiation X-ray Registration Number	12-12-2002
		Permit Number	Unknown	11-21-1999

Physical Location: 6525 Dept of Energy Rd (portion of)
St. James, LA 70086 **Main Phone:** 5044254474

Mailing Address: 701 Poydras St Ste 1000
New Orleans, LA 70139

Location of Front Gate: 30.010858 latitude, -90.849831 longitude, Coordinate Method: Lat.\Long. - DMS, Coordinate Datum: NAD83

Related People:	Name	Mailing Address	Phone (Type)	Relationship
	Kendall Lemelle	PO Box 2648 OSP-42 Floor Houston, TX 772522648	5044530149 (WP)	Radiation Contact For
	Kendall Lemelle	PO Box 2648 OSP-42 Floor Houston, TX 772522648	Kendall.Lemelle@sh	Radiation Contact For
	Kendall Lemelle	PO Box 2648 OSP-42 Floor Houston, TX 772522648	Kendall.Lemelle@sh	Accident Prevention Billing Party for
	Kendall Lemelle	PO Box 2648 OSP-42 Floor Houston, TX 772522648	5044530149 (WP)	Accident Prevention Billing Party for
	Kendall Lemelle	PO Box 2648 OSP-42 Floor Houston, TX 772522648	Kendall.Lemelle@sh	Accident Prevention Contact for
	Kendall Lemelle	PO Box 2648 OSP-42 Floor Houston, TX 772522648	5044530149 (WP)	Emission Inventory Facility Contact for
	Kendall Lemelle	PO Box 2648 OSP-42 Floor Houston, TX 772522648	Kendall.Lemelle@sh	Emission Inventory Facility Contact for
	Kendall Lemelle	PO Box 2648 OSP-42 Floor Houston, TX 772522648	5044530149 (WP)	Water Permit Contact For
	Kendall Lemelle	PO Box 2648 OSP-42 Floor Houston, TX 772522648	Kendall.Lemelle@sh	Water Permit Contact For
	Kendall Lemelle	PO Box 2648 OSP-42 Floor Houston, TX 772522648	5044530149 (WP)	Air Permit Contact For
	Kendall Lemelle	PO Box 2648 OSP-42 Floor Houston, TX 772522648	Kendall.Lemelle@sh	Air Permit Contact For
	Kendall Lemelle	PO Box 2648 OSP-42 Floor Houston, TX 772522648	5044530149 (WP)	Accident Prevention Contact for
	Greg Smith	701 Poydras St Ste 1000 New Orleans, LA 70139	5044254474 (WP)	Water Permit Contact For
	Greg Smith	701 Poydras St Ste 1000 New Orleans, LA 70139	greg.smith@shell.co	Responsible Official for
	Greg Smith	701 Poydras St Ste 1000 New Orleans, LA 70139	5044254474 (WP)	Responsible Official for
	Greg Smith	701 Poydras St Ste 1000 New Orleans, LA 70139	greg.smith@shell.co	Water Permit Contact For

General Information

AI ID: 32798 Shell Pipeline Co LP - Sugarland Pipeline Station/Terminal

Activity Number: PER20170001

Permit Number: 2560-00034-V9

Air - Title V Significant Modification

Related Organizations:	Name	Address	Phone (Type)	Relationship
	CT Corporation System	5615 Corporate Blvd Ste 400B Baton Rouge, LA 70808		Agent of Service for
	Ponchatoula Area Recreation District	19030 Ponchatoula Parks Dr Ponchatoula, LA 70454	9853707799 (WP)	Radiation Registration Billing Party for
	Shell Pipeline Co LLC	PO Box 63 St. James, LA 700880063		Radiation Registration Billing Party for
	Shell Pipeline Co LP	PO Box 2648 OSP-42 Floor Houston, TX 772522648	7132413583 (WP)	Air Billing Party for
	Shell Pipeline Co LP	PO Box 2648 OSP-42 Floor Houston, TX 772522648	david.mulkey@shell.	Operates
	Shell Pipeline Co LP	PO Box 2648 OSP-42 Floor Houston, TX 772522648	7132413583 (WP)	Operates
	Shell Pipeline Co LP	PO Box 2648 OSP-42 Floor Houston, TX 772522648	david.mulkey@shell.	Water Billing Party for
	Shell Pipeline Co LP	PO Box 2648 OSP-42 Floor Houston, TX 772522648	7132413583 (WP)	Water Billing Party for
	Shell Pipeline Co LP	PO Box 2648 OSP-42 Floor Houston, TX 772522648	7132413583 (WP)	Emission Inventory Billing Party
	Shell Pipeline Co LP	PO Box 2648 OSP-42 Floor Houston, TX 772522648	7132413583 (WP)	Owns
	Shell Pipeline Co LP	PO Box 2648 OSP-42 Floor Houston, TX 772522648	david.mulkey@shell.	Owns
	Shell Pipeline Co LP	PO Box 2648 OSP-42 Floor Houston, TX 772522648	david.mulkey@shell.	Air Billing Party for

NAIC Codes: 486110, Pipeline Transportation of Crude Oil

Note: This report entitled "General Information" contains a summary of facility-level information contained in LDEQ's TEMPO database for this facility and is not considered a part of the permit. Please review the information contained in this document for accuracy and completeness. If any changes are required or if you have questions regarding this document, you may email your changes to facupdate@la.gov.

INVENTORIES

AI ID: 32798 - Shell Pipeline Co LP - Sugarland Pipeline Station/Terminal

Activity Number: PER20170001

Permit Number: 2560-00034-V9

Air - Title V Significant Modification

Subject Item Inventory:

ID	Description	Tank Volume	Max. Operating Rate	Normal Operating Rate	Contents	Operating Time
Sugarland Pipeline Station/Terminal						
EQT 0004	1-78 - 200,000 BBL Crude Oil Storage Tank	200000 bbl				8760 hr/yr
EQT 0005	2-78 - 200,000 BBL Crude Oil Storage Tank	200000 bbl				8760 hr/yr
EQT 0006	3-78 - 400,000 BBL Crude Oil Storage Tank	400000 bbl				8760 hr/yr
EQT 0007	4-78 - 400,000 BBL Crude Oil Storage Tank	400000 bbl				8760 hr/yr
EQT 0008	5-78 - 400,000 BBL Crude Oil Storage Tank	400000 bbl				8760 hr/yr
EQT 0009	6-78 - 400,000 BBL Crude Oil Storage Tank	400000 bbl				8760 hr/yr
EQT 0017	7-78 - Crude Oil Loading Dock 1 - Uncontrolled		42.29 MM gallons/yr	42.29 MM gallons/yr		100 hr/yr
EQT 0018	8-78 - Crude Oil Loading Dock 2		100000 bbl/yr	50000 bbl/hr		100 hr/yr
EQT 0019	18-78 - Gasoline Storage Tank	2016 gallons		6870 gallons/yr		8760 hr/yr
EQT 0020	19-78 - 238 hp Fire Pump Engine (Diesel)		238 horsepower	238 horsepower		0 hr/yr
EQT 0021	20-78 - 1020 hp Fire Pump Engine (Diesel)		1020 horsepower	1020 horsepower		0 hr/yr
EQT 0022	21-78 - 231 hp Fire Pump Engine (Diesel)		231 horsepower	231 horsepower		100 hr/yr
EQT 0023	22-78 - 39 hp Generator Engine (Diesel)		39 horsepower	39 horsepower		0 hr/yr
EQT 0024	23-78 - 560 hp Generator Engine (Diesel)		560 horsepower	560 horsepower		100 hr/yr
EQT 0025	24-78 - 175 hp Generator Engine (Propane)		175 horsepower	175 horsepower		0 hr/yr
EQT 0027	TLO-1 - Tank Landing Operations					72 hr/yr
EQT 0028	TCO-1 - Tank Cleaning Operations					1056 hr/yr
EQT 0030	VCU - Marine Vapor Combustion Unit (Dock 1)		20000 bbl/hr	12500 bbl/hr		8760 hr/yr
FUG 0001	9-78 - Fugitive Emissions					8760 hr/yr

Stack Information:

ID	Description	Velocity (ft/sec)	Flow Rate (cubic ft/min-actual)	Diameter (feet)	Discharge Area (square feet)	Height (feet)	Temperature (oF)
Sugarland Pipeline Station/Terminal							
EQT 0004	1-78 - 200,000 BBL Crude Oil Storage Tank				6.94	32	70
EQT 0005	2-78 - 200,000 BBL Crude Oil Storage Tank				6.94	32	70
EQT 0006	3-78 - 400,000 BBL Crude Oil Storage Tank				9.82	32	70
EQT 0007	4-78 - 400,000 BBL Crude Oil Storage Tank				9.82	32	70
EQT 0008	5-78 - 400,000 BBL Crude Oil Storage Tank				9.82	32	70
EQT 0009	6-78 - 400,000 BBL Crude Oil Storage Tank				9.82	32	70
EQT 0017	7-78 - Crude Oil Loading Dock 1 - Uncontrolled	.01	4.2	3		3	70
EQT 0018	8-78 - Crude Oil Loading Dock 2	.01	4.2	3		3	70
EQT 0019	18-78 - Gasoline Storage Tank				.3	10	70
EQT 0020	19-78 - 238 hp Fire Pump Engine (Diesel)	111.21	472	3		15	400
EQT 0021	20-78 - 1020 hp Fire Pump Engine (Diesel)	171.58	2021	.5		15	400
EQT 0022	21-78 - 231 hp Fire Pump Engine (Diesel)	107.94	458	.3		15	400

INVENTORIES

AI ID: 32798 - Shell Pipeline Co LP - Sugarland Pipeline Station/Terminal

Activity Number: PER20170001

Permit Number: 2560-00034-V9

Air - Title V Significant Modification

Stack Information:

ID	Description	Velocity (ft/sec)	Flow Rate (cubic ft/min-actual)	Diameter (feet)	Discharge Area (square feet)	Height (feet)	Temperature (oF)
Sugarland Pipeline Station/Terminal							
EQT 0023	22-78 - 39 hp Generator Engine (Diesel)	18.22	77	.3		15	400
EQT 0024	23-78 - 560 hp Generator Engine (Diesel)	261.67	1110	.3		15	400
EQT 0025	24-78 - 175 hp Generator Engine (Propane)	78.97	4	.03		15	400
EQT 0027	TLO-1 - Tank Landing Operations						
EQT 0030	VCU - Marine Vapor Combustion Unit (Dock 1)	54.5	287400	10.63		60	1735
FUG 0001	9-78 - Fugitive Emissions						

Relationships:

Subject Item Groups:

ID	Group Type	Group Description
CRG 0001	Common Requirements Group	ICE CRG 1 - Fire Pump Engine Common Requirements
CRG 0002	Common Requirements Group	ICE CRG 2 - Generator Engine (Diesel) Common Requirements
GRP 0002	Equipment Group	TANKCAP - Crude Oil Storage Tank Mass Emission Cap
UNF 0001	Unit or Facility Wide	Entire Facility - Sugarland Pipeline Station/Terminal

Group Membership:

ID	Description	Member of Groups
EQT 0004	1-78 - 200,000 BBL Crude Oil Storage Tank	GRP0000000002
EQT 0005	2-78 - 200,000 BBL Crude Oil Storage Tank	GRP0000000002
EQT 0006	3-78 - 400,000 BBL Crude Oil Storage Tank	GRP0000000002
EQT 0007	4-78 - 400,000 BBL Crude Oil Storage Tank	GRP0000000002
EQT 0008	5-78 - 400,000 BBL Crude Oil Storage Tank	GRP0000000002
EQT 0009	6-78 - 400,000 BBL Crude Oil Storage Tank	GRP0000000002
EQT 0022	21-78 - 231 hp Fire Pump Engine (Diesel)	CRG0000000001
EQT 0024	23-78 - 560 hp Generator Engine (Diesel)	CRG0000000002
EQT 0027	TLO-1 - Tank Landing Operations	GRP0000000002
EQT 0028	TCO-1 - Tank Cleaning Operations	GRP0000000002

NOTE: The UNF group relationship is not printed in this table. Every subject item is a member of the UNF group

Annual Maintenance Fee:

Fee Number	Air Contaminant Source	Multiplier	Units Of Measure
1364	1364 Crude Oil Pipeline - Facility with Over 500,000 BBLs Storage Capacity		

INVENTORIES

AI ID: 32798 - Shell Pipeline Co LP - Sugarland Pipeline Station/Terminal

Activity Number: PER20170001

Permit Number: 2560-00034-V9

Air - Title V Significant Modification

SIC Codes:

4612	Crude petroleum pipelines	AI 32798
4612	Crude petroleum pipelines	UNF 001
5171	Petroleum bulk stations and terminals	AI 32798
5171	Petroleum bulk stations and terminals	UNF 001

EMISSION RATES FOR CRITERIA POLLUTANTS AND CO2e

AI ID: 32798 - Shell Pipeline Co LP - Sugarland Pipeline Station/Terminal

Activity Number: PER20170001

Permit Number: 2560-00034-V9

Air - Title V Significant Modification

Subject Item	PM10			PM2.5			SO2			NOx		
	Avg lb/hr	Max lb/hr	Tons/Year									
Sugarland Pipeline Station/Terminal												
EQT 0017 7-78												
EQT 0018 8-78												
EQT 0019 18-78												
EQT 0022 21-78	0.51	0.51	0.03	0.51	0.51	0.03	0.47	0.47	0.02	7.16	7.16	0.36
EQT 0024 23-78	1.23	1.23	0.06	1.23	1.23	0.06	1.15	1.15	0.06	17.36	17.36	0.87
EQT 0027 TLO-1												
EQT 0028 TCO-1												
EQT 0030 VCU	0.39	0.55	1.71	0.39	0.55	1.71	<0.01	<0.01	0.01	3.54	4.96	15.51
FUG 0001 9-78												
GRP 0002 TANKCAP												

EMISSION RATES FOR CRITERIA POLLUTANTS AND CO_{2e}

AI ID: 32798 - Shell Pipeline Co LP - Sugarland Pipeline Station/Terminal

Activity Number: PER20170001

Permit Number: 2560-00034-V9

Air - Title V Significant Modification

Subject Item	CO			VOC		
	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year
Sugarland Pipeline Station/Terminal						
EQT 0017 7-78				755.03	755.03	37.75
EQT 0018 8-78				38.01	38.01	1.90
EQT 0019 18-78				0.05	0.05	0.23
EQT 0022 21-78	1.54	1.54	0.08	0.58	0.58	0.03
EQT 0024 23-78	3.74	3.74	0.19	1.41	1.41	0.07
EQT 0027 TLO-1					4248.02	
EQT 0028 TCO-1					221.08	
EQT 0030 VCU	19.27	27.01	84.40	0.72	1.01	3.15
FUG 0001 9-78				0.24		1.07
GRP 0002 TANKCAP				27.99		122.61

Note: Emission rates in bold are from alternate scenarios and are not included in permitted totals unless otherwise noted in a footnote.

Emission rates Notes:

EQT 0017 VOC Tons/Year These emissions result when the VRU is in Start-Up, Shutdown, and Maintenance. The downtime is limited to an equivalent of 5% of the controlled annual loading rate or 42,288,000 gal/yr. Which Months: All Year

EQT 0018 VOC Tons/Year These emissions result when the loading dock is handling a low vapor pressure (less than 1.5 psia at loading temperature) material. Which Months: All Year

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 32798 - Shell Pipeline Co LP - Sugarland Pipeline Station/Terminal

Activity Number: PER20170001

Permit Number: 2560-00034-V9

Air - Title V Significant Modification

Emission Pt.	Pollutant	Avg lb/hr	Max lb/hr	Tons/Year
EQT 0017 7-78	Benzene	0.15	0.15	0.01
	Ethyl benzene	0.08	0.08	<0.01
	n-Hexane	21.29	21.29	1.07
	Toluene	0.15	0.15	0.01
	Xylene (mixed isomers)	0.08	0.08	<0.01
EQT 0018 8-78	Benzene	0.01	0.01	<0.01
	Ethyl benzene	0.01	0.01	<0.01
	n-Hexane	1.07	1.07	0.05
	Toluene	0.01	0.01	<0.01
	Xylene (mixed isomers)	0.01	0.01	<0.01
EQT 0019 18-78	2,2,4-Trimethylpentane	<0.001	<0.001	<0.01
	Benzene	<0.001	<0.001	<0.01
	Methyl Tertiary Butyl Ether	0.001	0.001	<0.01
	n-Hexane	0.001	0.001	<0.01
	Toluene	<0.001	<0.001	<0.01
	Xylene (mixed isomers)	<0.001	<0.001	<0.01
EQT 0027 TLO-1	Benzene		0.81	
	Ethyl benzene		0.72	
	n-Hexane		83.81	
	Toluene		2.46	
	Xylene (mixed isomers)		3.87	
EQT 0028 TCO-1	Benzene		0.04	
	Ethyl benzene		0.04	
	n-Hexane		4.36	
	Toluene		0.13	
	Xylene (mixed isomers)		0.20	
EQT 0030 VCU	Benzene	<0.01	<0.01	<0.01
	Formaldehyde	0.14	0.20	0.63
	n-Hexane	0.02	0.03	0.09
	Toluene	<0.01	<0.01	<0.01
FUG 0001 9-78	n-Hexane	0.01		0.03
GRP 0002 TANKCAP	Benzene	0.01		0.02
	Ethyl benzene	0.002		0.01
	n-Hexane	0.48		2.10

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 32798 - Shell Pipeline Co LP - Sugarland Pipeline Station/Terminal

Activity Number: PER20170001

Permit Number: 2560-00034-V9

Air - Title V Significant Modification

Emission Pt.	Pollutant	Avg lb/hr	Max lb/hr	Tons/Year
GRP 0002 TANKCAP	Toluene	0.01		0.05
	Xylene (mixed isomers)	0.01		0.06
UNF 0001 Entire Facility	2,2,4-Trimethylpentane			0.01
	Benzene			0.06
	Ethyl benzene			0.03
	Formaldehyde			0.63
	Methyl Tertiary Butyl Ether			0.01
	n-Hexane			3.35
	Toluene			0.09
	Xylene (mixed isomers)			0.09

Note: Emission rates in bold are from alternate scenarios and are not included in permitted totals unless otherwise noted in a footnote. Emission rates attributed to the UNF reflect the sum of the TAP/HAP limits of the individual emission points (or caps) under this permit, but do not constitute an emission cap.

Emission Rates Notes:

EQT 0017	Benzene	Tons/Year	These emissions result when the VRU is in Start-Up, Shutdown, and Maintenance. The downtime is limited to an equivalent of 5% of the controlled annual loading rate or 42,288,000 gal/yr. Which Months: All Year
EQT 0018	Benzene	Tons/Year	These emissions result when the loading dock is handling a low vapor pressure (less than 1.5 psia at loading temperature) material. Which Months: All Year

SPECIFIC REQUIREMENTS

AI ID: 32798 - Shell Pipeline Co LP - Sugarland Pipeline Station/Terminal

Activity Number: PER20170001

Permit Number: 2560-00034-V9

Air - Title V Significant Modification

EQT 0004 1-78 - 200,000 BBL Crude Oil Storage Tank

- 1 [40 CFR 60.112a(a)(1)(i)(A)] Seal gap area ≤ 10.0 in²/ft (212 sq cm/meter) of tank diameter for the accumulated area of gaps between the tank wall and the mechanical shoe seal or liquid-mounted primary seal. Subpart Ka. [40 CFR 60.112a(a)(1)(i)(A)]
Which Months: All Year Statistical Basis: None specified
- 2 [40 CFR 60.112a(a)(1)(i)(A)] Seal gap width ≤ 1.5 in (3.81 cm) for the width of any portion of any gap between the tank wall and the mechanical shoe seal or liquid-mounted primary seal. Subpart Ka. [40 CFR 60.112a(a)(1)(i)(A)]
Which Months: All Year Statistical Basis: None specified
- 3 [40 CFR 60.112a(a)(1)(i)(C)] One end of the primary seal metallic shoe is to extend into the stored liquid, and the other end is to extend a minimum vertical distance of 24 inches (61 centimeters) above the stored liquid surface. Subpart Ka. [40 CFR 60.112a(a)(1)(i)(C)]
- 4 [40 CFR 60.112a(a)(1)(i)(D)] There are to be no holes, tears, or other openings in the shoe, primary seal fabric, or seal envelope. Subpart Ka. [40 CFR 60.112a(a)(1)(i)(D)]
- 5 [40 CFR 60.112a(a)(1)(i)] The primary seal is to be either a metallic shoe seal, a liquid-mounted seal, or a vapor-mounted seal. Subpart Ka. [40 CFR 60.112a(a)(1)(i)]
- 6 [40 CFR 60.112a(a)(1)(ii)(A)] Install the secondary seal above the primary seal so that it completely covers the space between the roof edge and the tank wall except as provided in 40 CFR 60.112a(a)(1)(ii)(B). Subpart Ka. [40 CFR 60.112a(a)(1)(ii)(A)]
- 7 [40 CFR 60.112a(a)(1)(ii)(B)] Seal gap area ≤ 1.0 in²/ft (21.2 sq cm/meter) of tank diameter for the accumulated area of gaps between the tank wall and the secondary seal used in combination with a metallic shoe or liquid-mounted primary seal. Subpart Ka. [40 CFR 60.112a(a)(1)(ii)(B)]
Which Months: All Year Statistical Basis: None specified
- 8 [40 CFR 60.112a(a)(1)(ii)(B)] Seal gap width ≤ 0.5 in (1.27 cm) for the width of any portion of any gap between the tank wall and the secondary seal used in combination with a metallic shoe or liquid-mounted primary seal. Subpart Ka. [40 CFR 60.112a(a)(1)(ii)(B)]
Which Months: All Year Statistical Basis: None specified
- 9 [40 CFR 60.112a(a)(1)(ii)(C)] There are to be no holes, tears or other openings in the secondary seal or seal fabric. Subpart Ka. [40 CFR 60.112a(a)(1)(ii)(C)]
- 10 [40 CFR 60.112a(a)(1)(iii)] Each opening in the roof except for automatic bleeder vents and rim space vents is to provide a projection below the liquid surface. Equip each opening in the roof except for automatic bleeder vents, rim space vents and leg sleeves with a cover, seal or lid and maintain in a closed position at all times (i.e., no visible gap) except when the device is in actual use or as described in 40 CFR 60.112a(a)(1)(iv). Close automatic bleeder vents at all times when the roof is floating, except when the roof is being floated off or is being landed on the roof leg supports. Set rim vents to open when the roof is being floated off the roof leg supports or at the manufacturer's recommended setting. Subpart Ka. [40 CFR 60.112a(a)(1)(iii)]
- 11 [40 CFR 60.112a(a)(1)(iv)] Provide each emergency roof drain with a slotted membrane fabric cover that covers at least 90 percent of the area of the opening. Subpart Ka. [40 CFR 60.112a(a)(1)(iv)]
- 12 [40 CFR 60.112a(a)(1)] Equip with an external floating roof consisting of a pontoon-type or double-deck-type cover that rests on the surface of the liquid contents and is equipped with a closure device between the tank wall and the roof edge. Except as provided in 40 CFR 60.112a(a)(1)(ii)(D), the closure device is to consist of two seals, one (secondary) above the other (primary). The roof is to be floating on the liquid at all times (i.e., off the roof leg supports) except during initial fill and when the tank is completely emptied and subsequently refilled. The process of emptying and refilling when the roof is resting on the leg supports shall be continuous and shall be accomplished as rapidly as possible. Subpart Ka. [40 CFR 60.112a(a)(1)]

SPECIFIC REQUIREMENTS

AI ID: 32798 - Shell Pipeline Co LP - Sugarland Pipeline Station/Terminal

Activity Number: PER20170001

Permit Number: 2560-00034-V9

Air - Title V Significant Modification

EQT 0004 1-78 - 200,000 BBL Crude Oil Storage Tank

- 13 [40 CFR 60.113a(a)(1)(i)(A)] Seal gap area & width monitored by measurement at the regulation's specified frequency. Determine the gap areas and maximum gap widths between the primary seal and the tank wall within 60 days of the initial fill with petroleum liquid and at least once every 5 years thereafter using the procedures in 40 CFR 60.113a(a)(1)(ii). Accomplish all primary seal inspections or gap measurements which require the removal or dislodging of the secondary seal as rapidly as possible and replace the secondary seal as soon as possible. Subpart Ka. [40 CFR 60.113a(a)(1)(i)(A)]
Which Months: All Year Statistical Basis: None specified
- 14 [40 CFR 60.113a(a)(1)(i)(B)] Seal gap area & width monitored by measurement at the regulation's specified frequency. Determine the gap areas and maximum gap widths between the secondary seal and the tank wall within 60 days of the initial fill with petroleum liquid and at least once every year thereafter using the procedures in 40 CFR 60.113a(a)(1)(ii). Subpart Ka. [40 CFR 60.113a(a)(1)(i)(B)]
Which Months: All Year Statistical Basis: None specified
- 15 [40 CFR 60.113a(a)(1)(i)(D)] Gap measurement(s) recordkeeping by electronic or hard copy upon each occurrence of gap measurement performance. Each record shall identify the vessel on which the measurement was performed and shall contain the date of the seal gap measurement, the raw data obtained in the measurement process required by 40 CFR 60.113a(a)(1)(ii) and the calculation required by 40 CFR 60.113a(a)(1)(ii). Keep records of each gap measurement at the plant for a period of at least 2 years following the date of measurement. Subpart Ka. [40 CFR 60.113a(a)(1)(i)(D)]
- 16 [40 CFR 60.113a(a)(1)(i)(E)] Submit report: Due to DEQ within 60 days of the date of seal gap measurements, if either the seal gap calculated in accord with 40 CFR 60.113a(a)(1)(iii) or the measured maximum seal gap exceeds the limitations specified by 40 CFR 60.112a. The report shall identify the vessel and list each reason why the vessel did not meet the specifications of 40 CFR 60.112a. The report shall also describe the actions necessary to bring the storage vessel into compliance with the specifications of 40 CFR 60.112a. Subpart Ka. [40 CFR 60.113a(a)(1)(i)(E)]
- 17 [40 CFR 60.113a(a)(1)(iv)] Submit notification: Due to DEQ at least 30 days prior to the gap measurement to afford DEQ to have an observer present. Subpart Ka. [40 CFR 60.113a(a)(1)(iv)]
- 18 [40 CFR 60.115a] Petroleum liquid storage data recordkeeping by electronic or hard copy continuously. Maintain a record of the petroleum liquid stored, the period of storage, and the maximum true vapor pressure of that liquid during the respective storage period, except as provided in 40 CFR 60.115a(d). Subpart Ka.
- 19 [LAC 33:III.2103.B] Equip with a submerged fill pipe.
- 20 [LAC 33:III.2103.D.2.a] Seal closure devices required in LAC 33:III.2103.D shall have no visible holes, tears, or other openings in the seals or seal fabric.
- 21 [LAC 33:III.2103.D.2.b] Seal closure devices required in LAC 33:III.2103.D shall be intact and uniformly in place around the circumference of the floating roof and the tank wall.
- 22 [LAC 33:III.2103.D.2.c] Seal gap area $\leq 1 \text{ in}^2/\text{ft}$ of tank diameter (6.5 cm²/0.3 m), for gaps between the secondary seal and tank wall that exceed 1/8 inch (0.32 cm) in width.
Which Months: All Year Statistical Basis: None specified
- 23 [LAC 33:III.2103.D.2.d] Seal gap area $\leq 10 \text{ in}^2/\text{ft}$ of tank diameter (65 cm²/0.3 m), for gaps between the primary seal and tank wall that exceed 1/8 inch (0.32 cm) in width.
Which Months: All Year Statistical Basis: None specified
- 24 [LAC 33:III.2103.D.2.e] Equipment/operational data recordkeeping by electronic or hard copy upon occurrence of event. Keep records of conditions that are not up to the standards described in LAC 33:III.2103.D.2, and the date(s) that the standards are not met. Notify the administrative authority within seven days of noncompliance with LAC 33:III.2103.D.2.

SPECIFIC REQUIREMENTS

AI ID: 32798 - Shell Pipeline Co LP - Sugarland Pipeline Station/Terminal

Activity Number: PER20170001

Permit Number: 2560-00034-V9

Air - Title V Significant Modification

EQT 0004 1-78 - 200,000 BBL Crude Oil Storage Tank

- 25 [LAC 33:III.2103.D.2.e] Initiate repairs of seals within seven working days of recognition of defective conditions by ordering appropriate parts, to avoid noncompliance with LAC 33:III.2103. Complete repairs within three months of the ordering of the repair parts.
- 26 [LAC 33:III.2103.D.2.e] Primary seals: Seal gap area & width monitored by measurement once every five years at any tank level, provided the roof is off its legs.
Which Months: All Year Statistical Basis: None specified
- 27 [LAC 33:III.2103.D.2.e] Secondary Seal or closure mechanism monitored by visual inspection/determination semiannually.
Which Months: All Year Statistical Basis: None specified
- 28 [LAC 33:III.2103.D.2.e] Secondary seals: Seal gap area & width monitored by measurement annually at any tank level, provided the roof is off its legs.
Which Months: All Year Statistical Basis: None specified
- 29 [LAC 33:III.2103.D.3] Provide all openings in the external floating roof (except for automatic bleeder vents, rim space vent, and leg sleeves) with a projection below the liquid surface. Equip each opening in the roof (except for automatic bleeder vents, rim space vents, roof drains, and leg sleeves) with a cover, seal or lid that is to be maintained in a closed position at all times except when the device is in actual use. Keep automatic bleeder vents closed at all times except when the roof is being floated off the roof leg supports. Set rim vents to open when the roof is being floated off the roof leg supports or at the manufacturer's recommended setting. Equip any emergency roof drain with a slotted membrane fabric cover or equivalent cover that covers at least 90 percent of the opening.
- 30 [LAC 33:III.2103.D] Equip external floating roof with a primary closure seal, consisting of a liquid mounted seal or a mechanical shoe seal, as defined in LAC 33:III.2103.C.1.a and b.
- 31 [LAC 33:III.2103.D] Equip with an external floating roof consisting of a pontoon type roof, double deck type roof, or external floating cover which will rest or float on the surface of the liquid contents and is equipped with a primary closure seal to close the space between the roof edge and tank wall and a continuous secondary seal (a rim mounted secondary) extending from the floating roof to the tank wall.
- 32 [LAC 33:III.2103.H.1] Determine compliance with LAC 33:III.2103.D.2 using the methods in LAC 33:III.2103.H.1.
- 33 [LAC 33:III.2103.H.3] Determine VOC maximum true vapor pressure using the methods in LAC 33:III.2103.H.3.a-e.
- 34 [LAC 33:III.2103.I] Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep records of the information specified in LAC 33:III.2103.I.1 - 7, as applicable.

EQT 0005 2-78 - 200,000 BBL Crude Oil Storage Tank

- 35 [40 CFR 60.112a(a)(1)(i)(A)] Seal gap area ≤ 10.0 in²/ft (212 sq cm/meter) of tank diameter for the accumulated area of gaps between the tank wall and the mechanical shoe seal or liquid-mounted primary seal. Subpart Ka. [40 CFR 60.112a(a)(1)(i)(A)]
Which Months: All Year Statistical Basis: None specified
- 36 [40 CFR 60.112a(a)(1)(i)(A)] Seal gap width ≤ 1.5 in (3.81 cm) for the width of any portion of any gap between the tank wall and the mechanical shoe seal or liquid-mounted primary seal. Subpart Ka. [40 CFR 60.112a(a)(1)(i)(A)]
Which Months: All Year Statistical Basis: None specified
- 37 [40 CFR 60.112a(a)(1)(i)(C)] One end of the primary seal metallic shoe is to extend into the stored liquid, and the other end is to extend a minimum vertical distance of 24 inches (61 centimeters) above the stored liquid surface. Subpart Ka. [40 CFR 60.112a(a)(1)(i)(C)]
- 38 [40 CFR 60.112a(a)(1)(i)(D)] There are to be no holes, tears, or other openings in the shoe, primary seal fabric, or seal envelope. Subpart Ka. [40 CFR 60.112a(a)(1)(i)(D)]
- 39 [40 CFR 60.112a(a)(1)(i)] The primary seal is to be either a metallic shoe seal, a liquid-mounted seal, or a vapor-mounted seal. Subpart Ka. [40 CFR 60.112a(a)(1)(i)]

SPECIFIC REQUIREMENTS

AI ID: 32798 - Shell Pipeline Co LP - Sugarland Pipeline Station/Terminal

Activity Number: PER20170001

Permit Number: 2560-00034-V9

Air - Title V Significant Modification

EQT 0005 2-78 - 200,000 BBL Crude Oil Storage Tank

- 40 [40 CFR 60.112a(a)(1)(ii)(A)] Install the secondary seal above the primary seal so that it completely covers the space between the roof edge and the tank wall except as provided in 40 CFR 60.112a(a)(1)(ii)(B). Subpart Ka. [40 CFR 60.112a(a)(1)(ii)(A)]
- 41 [40 CFR 60.112a(a)(1)(ii)(B)] Seal gap area $\leq 1.0 \text{ in}^2/\text{ft}$ (21.2 sq cm/meter) of tank diameter for the accumulated area of gaps between the tank wall and the secondary seal used in combination with a metallic shoe or liquid-mounted primary seal. Subpart Ka. [40 CFR 60.112a(a)(1)(ii)(B)]
Which Months: All Year Statistical Basis: None specified
- 42 [40 CFR 60.112a(a)(1)(ii)(B)] Seal gap width $\leq 0.5 \text{ in}$ (1.27 cm) for the width of any portion of any gap between the tank wall and the secondary seal used in combination with a metallic shoe or liquid-mounted primary seal. Subpart Ka. [40 CFR 60.112a(a)(1)(ii)(B)]
Which Months: All Year Statistical Basis: None specified
- 43 [40 CFR 60.112a(a)(1)(ii)(C)] There are to be no holes, tears or other openings in the secondary seal or seal fabric. Subpart Ka. [40 CFR 60.112a(a)(1)(ii)(C)]
- 44 [40 CFR 60.112a(a)(1)(iii)] Each opening in the roof except for automatic bleeder vents and rim space vents is to provide a projection below the liquid surface. Equip each opening in the roof except for automatic bleeder vents, rim space vents and leg sleeves with a cover, seal or lid and maintain in a closed position at all times (i.e., no visible gap) except when the device is in actual use or as described in 40 CFR 60.112a(a)(1)(iv). Close automatic bleeder vents at all times when the roof is floating, except when the roof is being floated off or is being landed on the roof leg supports. Set rim vents to open when the roof is being floated off the roof leg supports or at the manufacturer's recommended setting. Subpart Ka. [40 CFR 60.112a(a)(1)(iii)]
- 45 [40 CFR 60.112a(a)(1)(iv)] Provide each emergency roof drain with a slotted membrane fabric cover that covers at least 90 percent of the area of the opening. Subpart Ka. [40 CFR 60.112a(a)(1)(iv)]
- 46 [40 CFR 60.112a(a)(1)] Equip with an external floating roof consisting of a pontoon-type or double-deck-type cover that rests on the surface of the liquid contents and is equipped with a closure device between the tank wall and the roof edge. Except as provided in 40 CFR 60.112a(a)(1)(ii)(D), the closure device is to consist of two seals, one (secondary) above the other (primary). The roof is to be floating on the liquid at all times (i.e., off the roof leg supports) except during initial fill and when the tank is completely emptied and subsequently refilled. The process of emptying and refilling when the roof is resting on the leg supports shall be continuous and shall be accomplished as rapidly as possible. Subpart Ka. [40 CFR 60.112a(a)(1)]
- 47 [40 CFR 60.113a(a)(1)(i)(A)] Seal gap area & width monitored by measurement at the regulation's specified frequency. Determine the gap areas and maximum gap widths between the primary seal and the tank wall within 60 days of the initial fill with petroleum liquid and at least once every 5 years thereafter using the procedures in 40 CFR 60.113a(a)(1)(ii). Accomplish all primary seal inspections or gap measurements which require the removal or dislodging of the secondary seal as rapidly as possible and replace the secondary seal as soon as possible. Subpart Ka. [40 CFR 60.113a(a)(1)(i)(A)]
Which Months: All Year Statistical Basis: None specified
- 48 [40 CFR 60.113a(a)(1)(i)(B)] Seal gap area & width monitored by measurement at the regulation's specified frequency. Determine the gap areas and maximum gap widths between the secondary seal and the tank wall within 60 days of the initial fill with petroleum liquid and at least once every year thereafter using the procedures in 40 CFR 60.113a(a)(1)(ii). Subpart Ka. [40 CFR 60.113a(a)(1)(i)(B)]
Which Months: All Year Statistical Basis: None specified
- 49 [40 CFR 60.113a(a)(1)(i)(D)] Gap measurement(s) recordkeeping by electronic or hard copy upon each occurrence of gap measurement performance. Each record shall identify the vessel on which the measurement was performed and shall contain the date of the seal gap measurement, the raw data obtained in the measurement process required by 40 CFR 60.113a(a)(1)(ii) and the calculation required by 40 CFR 60.113a(a)(1)(iii). Keep records of each gap measurement at the plant for a period of at least 2 years following the date of measurement. Subpart Ka. [40 CFR 60.113a(a)(1)(i)(D)]

SPECIFIC REQUIREMENTS

AI ID: 32798 - Shell Pipeline Co LP - Sugarland Pipeline Station/Terminal

Activity Number: PER20170001

Permit Number: 2560-00034-V9

Air - Title V Significant Modification

EQT 0005 2-78 - 200,000 BBL Crude Oil Storage Tank

- 50 [40 CFR 60.113a(a)(1)(i)(E)] Submit report: Due to DEQ within 60 days of the date of seal gap measurements, if either the seal gap calculated in accord with 40 CFR 60.113a(a)(1)(iii) or the measured maximum seal gap exceeds the limitations specified by 40 CFR 60.112a. The report shall identify the vessel and list each reason why the vessel did not meet the specifications of 40 CFR 60.112a. The report shall also describe the actions necessary to bring the storage vessel into compliance with the specifications of 40 CFR 60.112a. Subpart Ka. [40 CFR 60.113a(a)(1)(i)(E)]
- 51 [40 CFR 60.113a(a)(1)(iv)] Submit notification: Due to DEQ at least 30 days prior to the gap measurement to afford DEQ to have an observer present. Subpart Ka. [40 CFR 60.113a(a)(1)(iv)]
- 52 [40 CFR 60.115a] Petroleum liquid storage data recordkeeping by electronic or hard copy continuously. Maintain a record of the petroleum liquid stored, the period of storage, and the maximum true vapor pressure of that liquid during the respective storage period, except as provided in 40 CFR 60.115a(d). Subpart Ka.
- 53 [LAC 33:III.2103.B] Equip with a submerged fill pipe.
- 54 [LAC 33:III.2103.D.2.a] Seal closure devices required in LAC 33:III.2103.D shall have no visible holes, tears, or other openings in the seals or seal fabric.
- 55 [LAC 33:III.2103.D.2.b] Seal closure devices required in LAC 33:III.2103.D shall be intact and uniformly in place around the circumference of the floating roof and the tank wall.
- 56 [LAC 33:III.2103.D.2.c] Seal gap area $\leq 1 \text{ in}^2/\text{ft}$ of tank diameter (6.5 cm²/0.3 m), for gaps between the secondary seal and tank wall that exceed 1/8 inch (0.32 cm) in width.
Which Months: All Year Statistical Basis: None specified
- 57 [LAC 33:III.2103.D.2.d] Seal gap area $\leq 10 \text{ in}^2/\text{ft}$ of tank diameter (65 cm²/0.3 m), for gaps between the primary seal and tank wall that exceed 1/8 inch (0.32 cm) in width.
Which Months: All Year Statistical Basis: None specified
- 58 [LAC 33:III.2103.D.2.e] Equipment/operational data recordkeeping by electronic or hard copy upon occurrence of event. Keep records of conditions that are not up to the standards described in LAC 33:III.2103.D.2, and the date(s) that the standards are not met. Notify the administrative authority within seven days of noncompliance with LAC 33:III.2103.D.2.
- 59 [LAC 33:III.2103.D.2.e] Initiate repairs of seals within seven working days of recognition of defective conditions by ordering appropriate parts, to avoid noncompliance with LAC 33:III.2103. Complete repairs within three months of the ordering of the repair parts.
- 60 [LAC 33:III.2103.D.2.e] Primary seals: Seal gap area & width monitored by measurement once every five years at any tank level, provided the roof is off its legs.
Which Months: All Year Statistical Basis: None specified
- 61 [LAC 33:III.2103.D.2.e] Secondary Seal or closure mechanism monitored by visual inspection/determination semiannually.
Which Months: All Year Statistical Basis: None specified
- 62 [LAC 33:III.2103.D.2.e] Secondary seals: Seal gap area & width monitored by measurement annually at any tank level, provided the roof is off its legs.
Which Months: All Year Statistical Basis: None specified
- 63 [LAC 33:III.2103.D.3] Provide all openings in the external floating roof (except for automatic bleeder vents, rim space vent, and leg sleeves) with a projection below the liquid surface. Equip each opening in the roof (except for automatic bleeder vents, rim space vents, roof drains, and leg sleeves) with a cover, seal or lid that is to be maintained in a closed position at all times except when the device is in actual use. Keep automatic bleeder vents closed at all times except when the roof is being floated off the roof leg supports. Set rim vents to open when the roof is being floated off the roof leg supports or at the manufacturer's recommended setting. Equip any emergency roof drain with a slotted membrane fabric cover or equivalent cover that covers at least 90 percent of the opening.

SPECIFIC REQUIREMENTS

AI ID: 32798 - Shell Pipeline Co LP - Sugarland Pipeline Station/Terminal

Activity Number: PER20170001

Permit Number: 2560-00034-V9

Air - Title V Significant Modification

EQT 0005 2-78 - 200,000 BBL Crude Oil Storage Tank

- 64 [LAC 33:III.2103.D] Equip external floating roof with a primary closure seal, consisting of a liquid mounted seal or a mechanical shoe seal, as defined in LAC 33:III.2103.C.1.a and b.
- 65 [LAC 33:III.2103.D] Equip with an external floating roof consisting of a pontoon type roof, double deck type roof, or external floating cover which will rest or float on the surface of the liquid contents and is equipped with a primary closure seal to close the space between the roof edge and tank wall and a continuous secondary seal (a rim mounted secondary) extending from the floating roof to the tank wall.
- 66 [LAC 33:III.2103.H.1] Determine compliance with LAC 33:III.2103.D.2 using the methods in LAC 33:III.2103.H.1.
- 67 [LAC 33:III.2103.H.3] Determine VOC maximum true vapor pressure using the methods in LAC 33:III.2103.H.3.a-e.
- 68 [LAC 33:III.2103.I] Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep records of the information specified in LAC 33:III.2103.I.1 - 7, as applicable.

EQT 0006 3-78 - 400,000 BBL Crude Oil Storage Tank

- 69 [40 CFR 60.112a(a)(1)(i)(A)] Seal gap area ≤ 10.0 in²/ft (212 sq cm/meter) of tank diameter for the accumulated area of gaps between the tank wall and the mechanical shoe seal or liquid-mounted primary seal. Subpart Ka. [40 CFR 60.112a(a)(1)(i)(A)]
Which Months: All Year Statistical Basis: None specified
- 70 [40 CFR 60.112a(a)(1)(i)(A)] Seal gap width ≤ 1.5 in (3.81 cm) for the width of any portion of any gap between the tank wall and the mechanical shoe seal or liquid-mounted primary seal. Subpart Ka. [40 CFR 60.112a(a)(1)(i)(A)]
Which Months: All Year Statistical Basis: None specified
- 71 [40 CFR 60.112a(a)(1)(i)(C)] One end of the primary seal metallic shoe is to extend into the stored liquid, and the other end is to extend a minimum vertical distance of 24 inches (61 centimeters) above the stored liquid surface. Subpart Ka. [40 CFR 60.112a(a)(1)(i)(C)]
- 72 [40 CFR 60.112a(a)(1)(i)(D)] There are to be no holes, tears, or other openings in the shoe, primary seal fabric, or seal envelope. Subpart Ka. [40 CFR 60.112a(a)(1)(i)(D)]
- 73 [40 CFR 60.112a(a)(1)(i)] The primary seal is to be either a metallic shoe seal, a liquid-mounted seal, or a vapor-mounted seal. Subpart Ka. [40 CFR 60.112a(a)(1)(i)]
- 74 [40 CFR 60.112a(a)(1)(ii)(A)] Install the secondary seal above the primary seal so that it completely covers the space between the roof edge and the tank wall except as provided in 40 CFR 60.112a(a)(1)(ii)(B). Subpart Ka. [40 CFR 60.112a(a)(1)(ii)(A)]
- 75 [40 CFR 60.112a(a)(1)(ii)(B)] Seal gap area ≤ 1.0 in²/ft (21.2 sq cm/meter) of tank diameter for the accumulated area of gaps between the tank wall and the secondary seal used in combination with a metallic shoe or liquid-mounted primary seal. Subpart Ka. [40 CFR 60.112a(a)(1)(ii)(B)]
Which Months: All Year Statistical Basis: None specified
- 76 [40 CFR 60.112a(a)(1)(ii)(B)] Seal gap width ≤ 0.5 in (1.27 cm) for the width of any portion of any gap between the tank wall and the secondary seal used in combination with a metallic shoe or liquid-mounted primary seal. Subpart Ka. [40 CFR 60.112a(a)(1)(ii)(B)]
Which Months: All Year Statistical Basis: None specified
- 77 [40 CFR 60.112a(a)(1)(ii)(C)] There are to be no holes, tears or other openings in the secondary seal or seal fabric. Subpart Ka. [40 CFR 60.112a(a)(1)(ii)(C)]

SPECIFIC REQUIREMENTS

AI ID: 32798 - Shell Pipeline Co LP - Sugarland Pipeline Station/Terminal

Activity Number: PER20170001

Permit Number: 2560-00034-V9

Air - Title V Significant Modification

EQT 0006 3-78 - 400,000 BBL Crude Oil Storage Tank

- 78 [40 CFR 60.112a(a)(1)(iii)] Each opening in the roof except for automatic bleeder vents and rim space vents is to provide a projection below the liquid surface. Equip each opening in the roof except for automatic bleeder vents, rim space vents and leg sleeves with a cover, seal or lid and maintain in a closed position at all times (i.e., no visible gap) except when the device is in actual use or as described in 40 CFR 60.112a(a)(1)(iv). Close automatic bleeder vents at all times when the roof is floating, except when the roof is being floated off or is being landed on the roof leg supports. Set rim vents to open when the roof is being floated off the roof leg supports or at the manufacturer's recommended setting. Subpart Ka. [40 CFR 60.112a(a)(1)(iii)]
- 79 [40 CFR 60.112a(a)(1)(iv)] Provide each emergency roof drain with a slotted membrane fabric cover that covers at least 90 percent of the area of the opening. Subpart Ka. [40 CFR 60.112a(a)(1)(iv)]
- 80 [40 CFR 60.112a(a)(1)] Equip with an external floating roof consisting of a pontoon-type or double-deck-type cover that rests on the surface of the liquid contents and is equipped with a closure device between the tank wall and the roof edge. Except as provided in 40 CFR 60.112a(a)(1)(ii)(D), the closure device is to consist of two seals, one (secondary) above the other (primary). The roof is to be floating on the liquid at all times (i.e., off the roof leg supports) except during initial fill and when the tank is completely emptied and subsequently refilled. The process of emptying and refilling when the roof is resting on the leg supports shall be continuous and shall be accomplished as rapidly as possible. Subpart Ka. [40 CFR 60.112a(a)(1)]
- 81 [40 CFR 60.113a(a)(1)(i)(A)] Seal gap area & width monitored by measurement at the regulation's specified frequency. Determine the gap areas and maximum gap widths between the primary seal and the tank wall within 60 days of the initial fill with petroleum liquid and at least once every 5 years thereafter using the procedures in 40 CFR 60.113a(a)(1)(ii). Accomplish all primary seal inspections or gap measurements which require the removal or dislodging of the secondary seal as rapidly as possible and replace the secondary seal as soon as possible. Subpart Ka. [40 CFR 60.113a(a)(1)(i)(A)]
Which Months: All Year Statistical Basis: None specified
- 82 [40 CFR 60.113a(a)(1)(i)(B)] Seal gap area & width monitored by measurement at the regulation's specified frequency. Determine the gap areas and maximum gap widths between the secondary seal and the tank wall within 60 days of the initial fill with petroleum liquid and at least once every year thereafter using the procedures in 40 CFR 60.113a(a)(1)(ii). Subpart Ka. [40 CFR 60.113a(a)(1)(i)(B)]
Which Months: All Year Statistical Basis: None specified
- 83 [40 CFR 60.113a(a)(1)(i)(D)] Gap measurement(s) recordkeeping by electronic or hard copy upon each occurrence of gap measurement performance. Each record shall identify the vessel on which the measurement was performed and shall contain the date of the seal gap measurement, the raw data obtained in the measurement process required by 40 CFR 60.113a(a)(1)(ii) and the calculation required by 40 CFR 60.113a(a)(1)(iii). Keep records of each gap measurement at the plant for a period of at least 2 years following the date of measurement. Subpart Ka. [40 CFR 60.113a(a)(1)(i)(D)]
- 84 [40 CFR 60.113a(a)(1)(i)(E)] Submit report: Due to DEQ within 60 days of the date of seal gap measurements, if either the seal gap calculated in accord with 40 CFR 60.113a(a)(1)(iii) or the measured maximum seal gap exceeds the limitations specified by 40 CFR 60.112a. The report shall identify the vessel and list each reason why the vessel did not meet the specifications of 40 CFR 60.112a. The report shall also describe the actions necessary to bring the storage vessel into compliance with the specifications of 40 CFR 60.112a. Subpart Ka. [40 CFR 60.113a(a)(1)(i)(E)]
- 85 [40 CFR 60.113a(a)(1)(iv)] Submit notification: Due to DEQ at least 30 days prior to the gap measurement to afford DEQ to have an observer present. Subpart Ka. [40 CFR 60.113a(a)(1)(iv)]
- 86 [40 CFR 60.115a] Petroleum liquid storage data recordkeeping by electronic or hard copy continuously. Maintain a record of the petroleum liquid stored, the period of storage, and the maximum true vapor pressure of that liquid during the respective storage period, except as provided in 40 CFR 60.115a(d). Subpart Ka.

SPECIFIC REQUIREMENTS

AI ID: 32798 - Shell Pipeline Co LP - Sugarland Pipeline Station/Terminal

Activity Number: PER20170001

Permit Number: 2560-00034-V9

Air - Title V Significant Modification

EQT 0006 3-78 - 400,000 BBL Crude Oil Storage Tank

- 87 [LAC 33:III.2103.B] Equip with a submerged fill pipe.
- 88 [LAC 33:III.2103.D.2.a] Seal closure devices required in LAC 33:III.2103.D shall have no visible holes, tears, or other openings in the seals or seal fabric.
- 89 [LAC 33:III.2103.D.2.b] Seal closure devices required in LAC 33:III.2103.D shall be intact and uniformly in place around the circumference of the floating roof and the tank wall.
- 90 [LAC 33:III.2103.D.2.c] Seal gap area $\leq 1 \text{ in}^2/\text{ft}$ of tank diameter (6.5 cm²/0.3 m), for gaps between the secondary seal and tank wall that exceed 1/8 inch (0.32 cm) in width.
Which Months: All Year Statistical Basis: None specified
- 91 [LAC 33:III.2103.D.2.d] Seal gap area $\leq 10 \text{ in}^2/\text{ft}$ of tank diameter (65 cm²/0.3 m), for gaps between the primary seal and tank wall that exceed 1/8 inch (0.32 cm) in width.
Which Months: All Year Statistical Basis: None specified
- 92 [LAC 33:III.2103.D.2.e] Equipment/operational data recordkeeping by electronic or hard copy upon occurrence of event. Keep records of conditions that are not up to the standards described in LAC 33:III.2103.D.2, and the date(s) that the standards are not met. Notify the administrative authority within seven days of noncompliance with LAC 33:III.2103.D.2.
- 93 [LAC 33:III.2103.D.2.e] Initiate repairs of seals within seven working days of recognition of defective conditions by ordering appropriate parts, to avoid noncompliance with LAC 33:III.2103. Complete repairs within three months of the ordering of the repair parts.
- 94 [LAC 33:III.2103.D.2.e] Primary seals: Seal gap area & width monitored by measurement once every five years at any tank level, provided the roof is off its legs.
Which Months: All Year Statistical Basis: None specified
- 95 [LAC 33:III.2103.D.2.e] Secondary Seal or closure mechanism monitored by visual inspection/determination semiannually.
Which Months: All Year Statistical Basis: None specified
- 96 [LAC 33:III.2103.D.2.e] Secondary seals: Seal gap area & width monitored by measurement annually at any tank level, provided the roof is off its legs.
Which Months: All Year Statistical Basis: None specified
- 97 [LAC 33:III.2103.D.3] Provide all openings in the external floating roof (except for automatic bleeder vents, rim space vent, and leg sleeves) with a projection below the liquid surface. Equip each opening in the roof (except for automatic bleeder vents, rim space vents, roof drains, and leg sleeves) with a cover, seal or lid that is to be maintained in a closed position at all times except when the device is in actual use. Keep automatic bleeder vents closed at all times except when the roof is being floated off the roof leg supports. Set rim vents to open when the roof is being floated off the roof leg supports or at the manufacturer's recommended setting. Equip any emergency roof drain with a slotted membrane fabric cover or equivalent cover that covers at least 90 percent of the opening.
- 98 [LAC 33:III.2103.D] Equip external floating roof with a primary closure seal, consisting of a liquid mounted seal or a mechanical shoe seal, as defined in LAC 33:III.2103.C.1.a and b.
- 99 [LAC 33:III.2103.D] Equip with an external floating roof consisting of a pontoon type roof, double deck type roof, or external floating cover which will rest or float on the surface of the liquid contents and is equipped with a primary closure seal to close the space between the roof edge and tank wall and a continuous secondary seal (a rim mounted secondary) extending from the floating roof to the tank wall.
- 100 [LAC 33:III.2103.H.1] Determine compliance with LAC 33:III.2103.D.2 using the methods in LAC 33:III.2103.H.1.
- 101 [LAC 33:III.2103.H.3] Determine VOC maximum true vapor pressure using the methods in LAC 33:III.2103.H.3.a-e.
- 102 [LAC 33:III.2103.I] Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep records of the information specified in LAC 33:III.2103.I.1 - 7, as applicable.

SPECIFIC REQUIREMENTS

AI ID: 32798 - Shell Pipeline Co LP - Sugarland Pipeline Station/Terminal

Activity Number: PER20170001

Permit Number: 2560-00034-V9

Air - Title V Significant Modification

EQT 0007 4-78 - 400,000 BBL Crude Oil Storage Tank

- 103 [40 CFR 60.112a(a)(1)(i)(A)] Seal gap area ≤ 10.0 in²/ft (212 sq cm/meter) of tank diameter for the accumulated area of gaps between the tank wall and the mechanical shoe seal or liquid-mounted primary seal. Subpart Ka. [40 CFR 60.112a(a)(1)(i)(A)]
Which Months: All Year Statistical Basis: None specified
- 104 [40 CFR 60.112a(a)(1)(i)(A)] Seal gap width ≤ 1.5 in (3.81 cm) for the width of any portion of any gap between the tank wall and the mechanical shoe seal or liquid-mounted primary seal. Subpart Ka. [40 CFR 60.112a(a)(1)(i)(A)]
Which Months: All Year Statistical Basis: None specified
- 105 [40 CFR 60.112a(a)(1)(i)(C)] One end of the primary seal metallic shoe is to extend into the stored liquid, and the other end is to extend a minimum vertical distance of 24 inches (61 centimeters) above the stored liquid surface. Subpart Ka. [40 CFR 60.112a(a)(1)(i)(C)]
- 106 [40 CFR 60.112a(a)(1)(i)(D)] There are to be no holes, tears, or other openings in the shoe, primary seal fabric, or seal envelope. Subpart Ka. [40 CFR 60.112a(a)(1)(i)(D)]
- 107 [40 CFR 60.112a(a)(1)(i)] The primary seal is to be either a metallic shoe seal, a liquid-mounted seal, or a vapor-mounted seal. Subpart Ka. [40 CFR 60.112a(a)(1)(i)]
- 108 [40 CFR 60.112a(a)(1)(ii)(A)] Install the secondary seal above the primary seal so that it completely covers the space between the roof edge and the tank wall except as provided in 40 CFR 60.112a(a)(1)(ii)(B). Subpart Ka. [40 CFR 60.112a(a)(1)(ii)(A)]
- 109 [40 CFR 60.112a(a)(1)(ii)(B)] Seal gap area ≤ 1.0 in²/ft (21.2 sq cm/meter) of tank diameter for the accumulated area of gaps between the tank wall and the secondary seal used in combination with a metallic shoe or liquid-mounted primary seal. Subpart Ka. [40 CFR 60.112a(a)(1)(ii)(B)]
Which Months: All Year Statistical Basis: None specified
- 110 [40 CFR 60.112a(a)(1)(ii)(B)] Seal gap width ≤ 0.5 in (1.27 cm) for the width of any portion of any gap between the tank wall and the secondary seal used in combination with a metallic shoe or liquid-mounted primary seal. Subpart Ka. [40 CFR 60.112a(a)(1)(ii)(B)]
Which Months: All Year Statistical Basis: None specified
- 111 [40 CFR 60.112a(a)(1)(ii)(C)] There are to be no holes, tears or other openings in the secondary seal or seal fabric. Subpart Ka. [40 CFR 60.112a(a)(1)(ii)(C)]
- 112 [40 CFR 60.112a(a)(1)(iii)] Each opening in the roof except for automatic bleeder vents and rim space vents is to provide a projection below the liquid surface. Equip each opening in the roof except for automatic bleeder vents, rim space vents and leg sleeves with a cover, seal or lid and maintain in a closed position at all times (i.e., no visible gap) except when the device is in actual use or as described in 40 CFR 60.112a(a)(1)(iv). Close automatic bleeder vents at all times when the roof is floating, except when the roof is being floated off or is being landed on the roof leg supports. Set rim vents to open when the roof is being floated off the roof leg supports or at the manufacturer's recommended setting. Subpart Ka. [40 CFR 60.112a(a)(1)(iii)]
- 113 [40 CFR 60.112a(a)(1)(iv)] Provide each emergency roof drain with a slotted membrane fabric cover that covers at least 90 percent of the area of the opening. Subpart Ka. [40 CFR 60.112a(a)(1)(iv)]
- 114 [40 CFR 60.112a(a)(1)] Equip with an external floating roof consisting of a pontoon-type or double-deck-type cover that rests on the surface of the liquid contents and is equipped with a closure device between the tank wall and the roof edge. Except as provided in 40 CFR 60.112a(a)(1)(ii)(D), the closure device is to consist of two seals, one (secondary) above the other (primary). The roof is to be floating on the liquid at all times (i.e., off the roof leg supports) except during initial fill and when the tank is completely emptied and subsequently refilled. The process of emptying and refilling when the roof is resting on the leg supports shall be continuous and shall be accomplished as rapidly as possible. Subpart Ka. [40 CFR 60.112a(a)(1)]

SPECIFIC REQUIREMENTS

AI ID: 32798 - Shell Pipeline Co LP - Sugarland Pipeline Station/Terminal

Activity Number: PER20170001

Permit Number: 2560-00034-V9

Air - Title V Significant Modification

EQT 0007 4-78 - 400,000 BBL Crude Oil Storage Tank

- 115 [40 CFR 60.113a(a)(1)(i)(A)] Seal gap area & width monitored by measurement at the regulation's specified frequency. Determine the gap areas and maximum gap widths between the primary seal and the tank wall within 60 days of the initial fill with petroleum liquid and at least once every 5 years thereafter using the procedures in 40 CFR 60.113a(a)(1)(ii). Accomplish all primary seal inspections or gap measurements which require the removal or dislodging of the secondary seal as rapidly as possible and replace the secondary seal as soon as possible. Subpart Ka. [40 CFR 60.113a(a)(1)(i)(A)]
Which Months: All Year Statistical Basis: None specified
- 116 [40 CFR 60.113a(a)(1)(i)(B)] Seal gap area & width monitored by measurement at the regulation's specified frequency. Determine the gap areas and maximum gap widths between the secondary seal and the tank wall within 60 days of the initial fill with petroleum liquid and at least once every year thereafter using the procedures in 40 CFR 60.113a(a)(1)(ii). Subpart Ka. [40 CFR 60.113a(a)(1)(i)(B)]
Which Months: All Year Statistical Basis: None specified
- 117 [40 CFR 60.113a(a)(1)(i)(D)] Gap measurement(s) recordkeeping by electronic or hard copy upon each occurrence of gap measurement performance. Each record shall identify the vessel on which the measurement was performed and shall contain the date of the seal gap measurement, the raw data obtained in the measurement process required by 40 CFR 60.113a(a)(1)(ii) and the calculation required by 40 CFR 60.113a(a)(1)(iii). Keep records of each gap measurement at the plant for a period of at least 2 years following the date of measurement. Subpart Ka. [40 CFR 60.113a(a)(1)(i)(D)]
- 118 [40 CFR 60.113a(a)(1)(i)(E)] Submit report: Due to DEQ within 60 days of the date of seal gap measurements, if either the seal gap calculated in accord with 40 CFR 60.113a(a)(1)(iii) or the measured maximum seal gap exceeds the limitations specified by 40 CFR 60.112a. The report shall identify the vessel and list each reason why the vessel did not meet the specifications of 40 CFR 60.112a. The report shall also describe the actions necessary to bring the storage vessel into compliance with the specifications of 40 CFR 60.112a. Subpart Ka. [40 CFR 60.113a(a)(1)(i)(E)]
- 119 [40 CFR 60.113a(a)(1)(iv)] Submit notification: Due to DEQ at least 30 days prior to the gap measurement to afford DEQ to have an observer present. Subpart Ka. [40 CFR 60.113a(a)(1)(iv)]
- 120 [40 CFR 60.115a] Petroleum liquid storage data recordkeeping by electronic or hard copy continuously. Maintain a record of the petroleum liquid stored, the period of storage, and the maximum true vapor pressure of that liquid during the respective storage period, except as provided in 40 CFR 60.115a(d). Subpart Ka.
- 121 [LAC 33:III.2103.B] Equip with a submerged fill pipe.
- 122 [LAC 33:III.2103.D.2.a] Seal closure devices required in LAC 33:III.2103.D shall have no visible holes, tears, or other openings in the seals or seal fabric.
- 123 [LAC 33:III.2103.D.2.b] Seal closure devices required in LAC 33:III.2103.D shall be intact and uniformly in place around the circumference of the floating roof and the tank wall.
- 124 [LAC 33:III.2103.D.2.c] Seal gap area $\leq 1 \text{ in}^2/\text{ft}$ of tank diameter (6.5 cm²/0.3 m), for gaps between the secondary seal and tank wall that exceed 1/8 inch (0.32 cm) in width.
Which Months: All Year Statistical Basis: None specified
- 125 [LAC 33:III.2103.D.2.d] Seal gap area $\leq 10 \text{ in}^2/\text{ft}$ of tank diameter (65 cm²/0.3 m), for gaps between the primary seal and tank wall that exceed 1/8 inch (0.32 cm) in width.
Which Months: All Year Statistical Basis: None specified
- 126 [LAC 33:III.2103.D.2.e] Equipment/operational data recordkeeping by electronic or hard copy upon occurrence of event. Keep records of conditions that are not up to the standards described in LAC 33:III.2103.D.2, and the date(s) that the standards are not met. Notify the administrative authority within seven days of noncompliance with LAC 33:III.2103.D.2.

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AI ID: 32798 - Shell Pipeline Co LP - Sugarland Pipeline Station/Terminal

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Air - Title V Significant Modification

EQT 0007 4-78 - 400,000 BBL Crude Oil Storage Tank

- 127 [LAC 33:III.2103.D.2.e] Initiate repairs of seals within seven working days of recognition of defective conditions by ordering appropriate parts, to avoid noncompliance with LAC 33:III.2103. Complete repairs within three months of the ordering of the repair parts.
- 128 [LAC 33:III.2103.D.2.e] Primary seals: Seal gap area & width monitored by measurement once every five years at any tank level, provided the roof is off its legs.
Which Months: All Year Statistical Basis: None specified
- 129 [LAC 33:III.2103.D.2.e] Secondary Seal or closure mechanism monitored by visual inspection/determination semiannually.
Which Months: All Year Statistical Basis: None specified
- 130 [LAC 33:III.2103.D.2.e] Secondary seals: Seal gap area & width monitored by measurement annually at any tank level, provided the roof is off its legs.
Which Months: All Year Statistical Basis: None specified
- 131 [LAC 33:III.2103.D.3] Provide all openings in the external floating roof (except for automatic bleeder vents, rim space vent, and leg sleeves) with a projection below the liquid surface. Equip each opening in the roof (except for automatic bleeder vents, rim space vents, roof drains, and leg sleeves) with a cover, seal or lid that is to be maintained in a closed position at all times except when the device is in actual use. Keep automatic bleeder vents closed at all times except when the roof is being floated off the roof leg supports. Set rim vents to open when the roof is being floated off the roof leg supports or at the manufacturer's recommended setting. Equip any emergency roof drain with a slotted membrane fabric cover or equivalent cover that covers at least 90 percent of the opening.
- 132 [LAC 33:III.2103.D] Equip external floating roof with a primary closure seal, consisting of a liquid mounted seal or a mechanical shoe seal, as defined in LAC 33:III.2103.C.1.a and b.
- 133 [LAC 33:III.2103.D] Equip with an external floating roof consisting of a pontoon type roof, double deck type roof, or external floating cover which will rest or float on the surface of the liquid contents and is equipped with a primary closure seal to close the space between the roof edge and tank wall and a continuous secondary seal (a rim mounted secondary) extending from the floating roof to the tank wall.
- 134 [LAC 33:III.2103.H.1] Determine compliance with LAC 33:III.2103.D.2 using the methods in LAC 33:III.2103.H.1.
- 135 [LAC 33:III.2103.H.3] Determine VOC maximum true vapor pressure using the methods in LAC 33:III.2103.H.3.a-e.
- 136 [LAC 33:III.2103.I] Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep records of the information specified in LAC 33:III.2103.I.1 - 7, as applicable.

EQT 0008 5-78 - 400,000 BBL Crude Oil Storage Tank

- 137 [40 CFR 60.112a(a)(1)(i)(A)] Seal gap area $\leq 10.0 \text{ in}^2/\text{ft}$ (212 sq cm/meter) of tank diameter for the accumulated area of gaps between the tank wall and the mechanical shoe seal or liquid-mounted primary seal. Subpart Ka. [40 CFR 60.112a(a)(1)(i)(A)]
Which Months: All Year Statistical Basis: None specified
- 138 [40 CFR 60.112a(a)(1)(i)(A)] Seal gap width $\leq 1.5 \text{ in}$ (3.81 cm) for the width of any portion of any gap between the tank wall and the mechanical shoe seal or liquid-mounted primary seal. Subpart Ka. [40 CFR 60.112a(a)(1)(i)(A)]
Which Months: All Year Statistical Basis: None specified
- 139 [40 CFR 60.112a(a)(1)(i)(C)] One end of the primary seal metallic shoe is to extend into the stored liquid, and the other end is to extend a minimum vertical distance of 24 inches (61 centimeters) above the stored liquid surface. Subpart Ka. [40 CFR 60.112a(a)(1)(i)(C)]
- 140 [40 CFR 60.112a(a)(1)(i)(D)] There are to be no holes, tears, or other openings in the shoe, primary seal fabric, or seal envelope. Subpart Ka. [40 CFR 60.112a(a)(1)(i)(D)]
- 141 [40 CFR 60.112a(a)(1)(i)] The primary seal is to be either a metallic shoe seal, a liquid-mounted seal, or a vapor-mounted seal. Subpart Ka. [40 CFR 60.112a(a)(1)(i)]

SPECIFIC REQUIREMENTS

AI ID: 32798 - Shell Pipeline Co LP - Sugarland Pipeline Station/Terminal

Activity Number: PER20170001

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Air - Title V Significant Modification

EQT 0008 5-78 - 400,000 BBL Crude Oil Storage Tank

- 142 [40 CFR 60.112a(a)(1)(ii)(A)] Install the secondary seal above the primary seal so that it completely covers the space between the roof edge and the tank wall except as provided in 40 CFR 60.112a(a)(1)(ii)(B). Subpart Ka. [40 CFR 60.112a(a)(1)(ii)(A)]
- 143 [40 CFR 60.112a(a)(1)(ii)(B)] Seal gap area $\leq 1.0 \text{ in}^2/\text{ft}$ (21.2 sq cm/meter) of tank diameter for the accumulated area of gaps between the tank wall and the secondary seal used in combination with a metallic shoe or liquid-mounted primary seal. Subpart Ka. [40 CFR 60.112a(a)(1)(ii)(B)]
Which Months: All Year Statistical Basis: None specified
- 144 [40 CFR 60.112a(a)(1)(ii)(B)] Seal gap width $\leq 0.5 \text{ in}$ (1.27 cm) for the width of any portion of any gap between the tank wall and the secondary seal used in combination with a metallic shoe or liquid-mounted primary seal. Subpart Ka. [40 CFR 60.112a(a)(1)(ii)(B)]
Which Months: All Year Statistical Basis: None specified
- 145 [40 CFR 60.112a(a)(1)(ii)(C)] There are to be no holes, tears or other openings in the secondary seal or seal fabric. Subpart Ka. [40 CFR 60.112a(a)(1)(ii)(C)]
- 146 [40 CFR 60.112a(a)(1)(iii)] Each opening in the roof except for automatic bleeder vents and rim space vents is to provide a projection below the liquid surface. Equip each opening in the roof except for automatic bleeder vents, rim space vents and leg sleeves with a cover, seal or lid and maintain in a closed position at all times (i.e., no visible gap) except when the device is in actual use or as described in 40 CFR 60.112a(a)(1)(iv). Close automatic bleeder vents at all times when the roof is floating, except when the roof is being floated off or is being landed on the roof leg supports. Set rim vents to open when the roof is being floated off the roof leg supports or at the manufacturer's recommended setting. Subpart Ka. [40 CFR 60.112a(a)(1)(iii)]
- 147 [40 CFR 60.112a(a)(1)(iv)] Provide each emergency roof drain with a slotted membrane fabric cover that covers at least 90 percent of the area of the opening. Subpart Ka. [40 CFR 60.112a(a)(1)(iv)]
- 148 [40 CFR 60.112a(a)(1)] Equip with an external floating roof consisting of a pontoon-type or double-deck-type cover that rests on the surface of the liquid contents and is equipped with a closure device between the tank wall and the roof edge. Except as provided in 40 CFR 60.112a(a)(1)(ii)(D), the closure device is to consist of two seals, one (secondary) above the other (primary). The roof is to be floating on the liquid at all times (i.e., off the roof leg supports) except during initial fill and when the tank is completely emptied and subsequently refilled. The process of emptying and refilling when the roof is resting on the leg supports shall be continuous and shall be accomplished as rapidly as possible. Subpart Ka. [40 CFR 60.112a(a)(1)]
- 149 [40 CFR 60.113a(a)(1)(i)(A)] Seal gap area & width monitored by measurement at the regulation's specified frequency. Determine the gap areas and maximum gap widths between the primary seal and the tank wall within 60 days of the initial fill with petroleum liquid and at least once every 5 years thereafter using the procedures in 40 CFR 60.113a(a)(1)(ii). Accomplish all primary seal inspections or gap measurements which require the removal or dislodging of the secondary seal as rapidly as possible and replace the secondary seal as soon as possible. Subpart Ka. [40 CFR 60.113a(a)(1)(i)(A)]
Which Months: All Year Statistical Basis: None specified
- 150 [40 CFR 60.113a(a)(1)(i)(B)] Seal gap area & width monitored by measurement at the regulation's specified frequency. Determine the gap areas and maximum gap widths between the secondary seal and the tank wall within 60 days of the initial fill with petroleum liquid and at least once every year thereafter using the procedures in 40 CFR 60.113a(a)(1)(ii). Subpart Ka. [40 CFR 60.113a(a)(1)(i)(B)]
Which Months: All Year Statistical Basis: None specified
- 151 [40 CFR 60.113a(a)(1)(i)(D)] Gap measurement(s) recordkeeping by electronic or hard copy upon each occurrence of gap measurement performance. Each record shall identify the vessel on which the measurement was performed and shall contain the date of the seal gap measurement, the raw data obtained in the measurement process required by 40 CFR 60.113a(a)(1)(ii) and the calculation required by 40 CFR 60.113a(a)(1)(iii). Keep records of each gap measurement at the plant for a period of at least 2 years following the date of measurement. Subpart Ka. [40 CFR 60.113a(a)(1)(i)(D)]

SPECIFIC REQUIREMENTS

AI ID: 32798 - Shell Pipeline Co LP - Sugarland Pipeline Station/Terminal

Activity Number: PER20170001

Permit Number: 2560-00034-V9

Air - Title V Significant Modification

EQT 0008 5-78 - 400,000 BBL Crude Oil Storage Tank

- 152 [40 CFR 60.113a(a)(1)(i)(E)] Submit report: Due to DEQ within 60 days of the date of seal gap measurements, if either the seal gap calculated in accord with 40 CFR 60.113a(a)(1)(iii) or the measured maximum seal gap exceeds the limitations specified by 40 CFR 60.112a. The report shall identify the vessel and list each reason why the vessel did not meet the specifications of 40 CFR 60.112a. The report shall also describe the actions necessary to bring the storage vessel into compliance with the specifications of 40 CFR 60.112a. Subpart Ka. [40 CFR 60.113a(a)(1)(i)(E)]
- 153 [40 CFR 60.113a(a)(1)(iv)] Submit notification: Due to DEQ at least 30 days prior to the gap measurement to afford DEQ to have an observer present. Subpart Ka. [40 CFR 60.113a(a)(1)(iv)]
- 154 [40 CFR 60.115a] Petroleum liquid storage data recordkeeping by electronic or hard copy continuously. Maintain a record of the petroleum liquid stored, the period of storage, and the maximum true vapor pressure of that liquid during the respective storage period, except as provided in 40 CFR 60.115a(d). Subpart Ka.
- 155 [LAC 33:III.2103.B] Equip with a submerged fill pipe.
- 156 [LAC 33:III.2103.D.2.a] Seal closure devices required in LAC 33:III.2103.D shall have no visible holes, tears, or other openings in the seals or seal fabric.
- 157 [LAC 33:III.2103.D.2.b] Seal closure devices required in LAC 33:III.2103.D shall be intact and uniformly in place around the circumference of the floating roof and the tank wall.
- 158 [LAC 33:III.2103.D.2.c] Seal gap area $\leq 1 \text{ in}^2/\text{ft}$ of tank diameter (6.5 cm²/0.3 m), for gaps between the secondary seal and tank wall that exceed 1/8 inch (0.32 cm) in width.
Which Months: All Year Statistical Basis: None specified
- 159 [LAC 33:III.2103.D.2.d] Seal gap area $\leq 10 \text{ in}^2/\text{ft}$ of tank diameter (65 cm²/0.3 m), for gaps between the primary seal and tank wall that exceed 1/8 inch (0.32 cm) in width.
Which Months: All Year Statistical Basis: None specified
- 160 [LAC 33:III.2103.D.2.e] Equipment/operational data recordkeeping by electronic or hard copy upon occurrence of event. Keep records of conditions that are not up to the standards described in LAC 33:III.2103.D.2, and the date(s) that the standards are not met. Notify the administrative authority within seven days of noncompliance with LAC 33:III.2103.D.2.
- 161 [LAC 33:III.2103.D.2.e] Initiate repairs of seals within seven working days of recognition of defective conditions by ordering appropriate parts, to avoid noncompliance with LAC 33:III.2103. Complete repairs within three months of the ordering of the repair parts.
- 162 [LAC 33:III.2103.D.2.e] Primary seals: Seal gap area & width monitored by measurement once every five years at any tank level, provided the roof is off its legs.
Which Months: All Year Statistical Basis: None specified
- 163 [LAC 33:III.2103.D.2.e] Secondary Seal or closure mechanism monitored by visual inspection/determination semiannually.
Which Months: All Year Statistical Basis: None specified
- 164 [LAC 33:III.2103.D.2.e] Secondary seals: Seal gap area & width monitored by measurement annually at any tank level, provided the roof is off its legs.
Which Months: All Year Statistical Basis: None specified
- 165 [LAC 33:III.2103.D.3] Provide all openings in the external floating roof (except for automatic bleeder vents, rim space vent, and leg sleeves) with a projection below the liquid surface. Equip each opening in the roof (except for automatic bleeder vents, rim space vents, roof drains, and leg sleeves) with a cover, seal or lid that is to be maintained in a closed position at all times except when the device is in actual use. Keep automatic bleeder vents closed at all times except when the roof is being floated off the roof leg supports. Set rim vents to open when the roof is being floated off the roof leg supports or at the manufacturer's recommended setting. Equip any emergency roof drain with a slotted membrane fabric cover or equivalent cover that covers at least 90 percent of the opening.

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EQT 0008 5-78 - 400,000 BBL Crude Oil Storage Tank

- 166 [LAC 33:III.2103.D] Equip external floating roof with a primary closure seal, consisting of a liquid mounted seal or a mechanical shoe seal, as defined in LAC 33:III.2103.C.1.a and b.
- 167 [LAC 33:III.2103.D] Equip with an external floating roof consisting of a pontoon type roof, double deck type roof, or external floating cover which will rest or float on the surface of the liquid contents and is equipped with a primary closure seal to close the space between the roof edge and tank wall and a continuous secondary seal (a rim mounted secondary) extending from the floating roof to the tank wall.
- 168 [LAC 33:III.2103.H.1] Determine compliance with LAC 33:III.2103.D.2 using the methods in LAC 33:III.2103.H.1.
- 169 [LAC 33:III.2103.H.3] Determine VOC maximum true vapor pressure using the methods in LAC 33:III.2103.H.3.a-e.
- 170 [LAC 33:III.2103.I] Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep records of the information specified in LAC 33:III.2103.I.1 - 7, as applicable.

EQT 0009 6-78 - 400,000 BBL Crude Oil Storage Tank

- 171 [40 CFR 60.112a(a)(1)(i)(A)] Seal gap area ≤ 10.0 in²/ft (212 sq cm/meter) of tank diameter for the accumulated area of gaps between the tank wall and the mechanical shoe seal or liquid-mounted primary seal. Subpart Ka. [40 CFR 60.112a(a)(1)(i)(A)]
Which Months: All Year Statistical Basis: None specified
- 172 [40 CFR 60.112a(a)(1)(i)(A)] Seal gap width ≤ 1.5 in (3.81 cm) for the width of any portion of any gap between the tank wall and the mechanical shoe seal or liquid-mounted primary seal. Subpart Ka. [40 CFR 60.112a(a)(1)(i)(A)]
Which Months: All Year Statistical Basis: None specified
- 173 [40 CFR 60.112a(a)(1)(i)(C)] One end of the primary seal metallic shoe is to extend into the stored liquid, and the other end is to extend a minimum vertical distance of 24 inches (61 centimeters) above the stored liquid surface. Subpart Ka. [40 CFR 60.112a(a)(1)(i)(C)]
- 174 [40 CFR 60.112a(a)(1)(i)(D)] There are to be no holes, tears, or other openings in the shoe, primary seal fabric, or seal envelope. Subpart Ka. [40 CFR 60.112a(a)(1)(i)(D)]
- 175 [40 CFR 60.112a(a)(1)(i)] The primary seal is to be either a metallic shoe seal, a liquid-mounted seal, or a vapor-mounted seal. Subpart Ka. [40 CFR 60.112a(a)(1)(i)]
- 176 [40 CFR 60.112a(a)(1)(ii)(A)] Install the secondary seal above the primary seal so that it completely covers the space between the roof edge and the tank wall except as provided in 40 CFR 60.112a(a)(1)(ii)(B). Subpart Ka. [40 CFR 60.112a(a)(1)(ii)(A)]
- 177 [40 CFR 60.112a(a)(1)(ii)(B)] Seal gap area ≤ 1.0 in²/ft (21.2 sq cm/meter) of tank diameter for the accumulated area of gaps between the tank wall and the secondary seal used in combination with a metallic shoe or liquid-mounted primary seal. Subpart Ka. [40 CFR 60.112a(a)(1)(ii)(B)]
Which Months: All Year Statistical Basis: None specified
- 178 [40 CFR 60.112a(a)(1)(ii)(B)] Seal gap width ≤ 0.5 in (1.27 cm) for the width of any portion of any gap between the tank wall and the secondary seal used in combination with a metallic shoe or liquid-mounted primary seal. Subpart Ka. [40 CFR 60.112a(a)(1)(ii)(B)]
Which Months: All Year Statistical Basis: None specified
- 179 [40 CFR 60.112a(a)(1)(ii)(C)] There are to be no holes, tears or other openings in the secondary seal or seal fabric. Subpart Ka. [40 CFR 60.112a(a)(1)(ii)(C)]

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EQT 0009 6-78 - 400,000 BBL Crude Oil Storage Tank

- 180 [40 CFR 60.112a(a)(1)(iii)] Each opening in the roof except for automatic bleeder vents and rim space vents is to provide a projection below the liquid surface. Equip each opening in the roof except for automatic bleeder vents, rim space vents and leg sleeves with a cover, seal or lid and maintain in a closed position at all times (i.e., no visible gap) except when the device is in actual use or as described in 40 CFR 60.112a(a)(1)(iv). Close automatic bleeder vents at all times when the roof is floating, except when the roof is being floated off or is being landed on the roof leg supports. Set rim vents to open when the roof is being floated off the roof leg supports or at the manufacturer's recommended setting. Subpart Ka. [40 CFR 60.112a(a)(1)(iii)]
- 181 [40 CFR 60.112a(a)(1)(iv)] Provide each emergency roof drain with a slotted membrane fabric cover that covers at least 90 percent of the area of the opening. Subpart Ka. [40 CFR 60.112a(a)(1)(iv)]
- 182 [40 CFR 60.112a(a)(1)] Equip with an external floating roof consisting of a pontoon-type or double-deck-type cover that rests on the surface of the liquid contents and is equipped with a closure device between the tank wall and the roof edge. Except as provided in 40 CFR 60.112a(a)(1)(ii)(D), the closure device is to consist of two seals, one (secondary) above the other (primary). The roof is to be floating on the liquid at all times (i.e., off the roof leg supports) except during initial fill and when the tank is completely emptied and subsequently refilled. The process of emptying and refilling when the roof is resting on the leg supports shall be continuous and shall be accomplished as rapidly as possible. Subpart Ka. [40 CFR 60.112a(a)(1)]
- 183 [40 CFR 60.113a(a)(1)(i)(A)] Seal gap area & width monitored by measurement at the regulation's specified frequency. Determine the gap areas and maximum gap widths between the primary seal and the tank wall within 60 days of the initial fill with petroleum liquid and at least once every 5 years thereafter using the procedures in 40 CFR 60.113a(a)(1)(ii). Accomplish all primary seal inspections or gap measurements which require the removal or dislodging of the secondary seal as rapidly as possible and replace the secondary seal as soon as possible. Subpart Ka. [40 CFR 60.113a(a)(1)(i)(A)]
Which Months: All Year Statistical Basis: None specified
- 184 [40 CFR 60.113a(a)(1)(i)(B)] Seal gap area & width monitored by measurement at the regulation's specified frequency. Determine the gap areas and maximum gap widths between the secondary seal and the tank wall within 60 days of the initial fill with petroleum liquid and at least once every year thereafter using the procedures in 40 CFR 60.113a(a)(1)(ii). Subpart Ka. [40 CFR 60.113a(a)(1)(i)(B)]
Which Months: All Year Statistical Basis: None specified
- 185 [40 CFR 60.113a(a)(1)(i)(D)] Gap measurement(s) recordkeeping by electronic or hard copy upon each occurrence of gap measurement performance. Each record shall identify the vessel on which the measurement was performed and shall contain the date of the seal gap measurement, the raw data obtained in the measurement process required by 40 CFR 60.113a(a)(1)(ii) and the calculation required by 40 CFR 60.113a(a)(1)(iii). Keep records of each gap measurement at the plant for a period of at least 2 years following the date of measurement. Subpart Ka. [40 CFR 60.113a(a)(1)(i)(D)]
- 186 [40 CFR 60.113a(a)(1)(i)(E)] Submit report: Due to DEQ within 60 days of the date of seal gap measurements, if either the seal gap calculated in accord with 40 CFR 60.113a(a)(1)(iii) or the measured maximum seal gap exceeds the limitations specified by 40 CFR 60.112a. The report shall identify the vessel and list each reason why the vessel did not meet the specifications of 40 CFR 60.112a. The report shall also describe the actions necessary to bring the storage vessel into compliance with the specifications of 40 CFR 60.112a. Subpart Ka. [40 CFR 60.113a(a)(1)(i)(E)]
- 187 [40 CFR 60.113a(a)(1)(iv)] Submit notification: Due to DEQ at least 30 days prior to the gap measurement to afford DEQ to have an observer present. Subpart Ka. [40 CFR 60.113a(a)(1)(iv)]
- 188 [40 CFR 60.115a] Petroleum liquid storage data recordkeeping by electronic or hard copy continuously. Maintain a record of the petroleum liquid stored, the period of storage, and the maximum true vapor pressure of that liquid during the respective storage period, except as provided in 40 CFR 60.115a(d). Subpart Ka.

SPECIFIC REQUIREMENTS

AI ID: 32798 - Shell Pipeline Co LP - Sugarland Pipeline Station/Terminal

Activity Number: PER20170001

Permit Number: 2560-00034-V9

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EQT 0009 6-78 - 400,000 BBL Crude Oil Storage Tank

- 189 [LAC 33:III.2103.B] Equip with a submerged fill pipe.
- 190 [LAC 33:III.2103.D.2.a] Seal closure devices required in LAC 33:III.2103.D shall have no visible holes, tears, or other openings in the seals or seal fabric.
- 191 [LAC 33:III.2103.D.2.b] Seal closure devices required in LAC 33:III.2103.D shall be intact and uniformly in place around the circumference of the floating roof and the tank wall.
- 192 [LAC 33:III.2103.D.2.c] Seal gap area $\leq 1 \text{ in}^2/\text{ft}$ of tank diameter (6.5 cm²/0.3 m), for gaps between the secondary seal and tank wall that exceed 1/8 inch (0.32 cm) in width.
Which Months: All Year Statistical Basis: None specified
- 193 [LAC 33:III.2103.D.2.d] Seal gap area $\leq 10 \text{ in}^2/\text{ft}$ of tank diameter (65 cm²/0.3 m), for gaps between the primary seal and tank wall that exceed 1/8 inch (0.32 cm) in width.
Which Months: All Year Statistical Basis: None specified
- 194 [LAC 33:III.2103.D.2.e] Equipment/operational data recordkeeping by electronic or hard copy upon occurrence of event. Keep records of conditions that are not up to the standards described in LAC 33:III.2103.D.2, and the date(s) that the standards are not met. Notify the administrative authority within seven days of noncompliance with LAC 33:III.2103.D.2.
- 195 [LAC 33:III.2103.D.2.e] Initiate repairs of seals within seven working days of recognition of defective conditions by ordering appropriate parts, to avoid noncompliance with LAC 33:III.2103. Complete repairs within three months of the ordering of the repair parts.
- 196 [LAC 33:III.2103.D.2.e] Primary seals: Seal gap area & width monitored by measurement once every five years at any tank level, provided the roof is off its legs.
Which Months: All Year Statistical Basis: None specified
- 197 [LAC 33:III.2103.D.2.e] Secondary Seal or closure mechanism monitored by visual inspection/determination semiannually.
Which Months: All Year Statistical Basis: None specified
- 198 [LAC 33:III.2103.D.2.e] Secondary seals: Seal gap area & width monitored by measurement annually at any tank level, provided the roof is off its legs.
Which Months: All Year Statistical Basis: None specified
- 199 [LAC 33:III.2103.D.3] Provide all openings in the external floating roof (except for automatic bleeder vents, rim space vent, and leg sleeves) with a projection below the liquid surface. Equip each opening in the roof (except for automatic bleeder vents, rim space vents, roof drains, and leg sleeves) with a cover, seal or lid that is to be maintained in a closed position at all times except when the device is in actual use. Keep automatic bleeder vents closed at all times except when the roof is being floated off the roof leg supports. Set rim vents to open when the roof is being floated off the roof leg supports or at the manufacturer's recommended setting. Equip any emergency roof drain with a slotted membrane fabric cover or equivalent cover that covers at least 90 percent of the opening.
- 200 [LAC 33:III.2103.D] Equip external floating roof with a primary closure seal, consisting of a liquid mounted seal or a mechanical shoe seal, as defined in LAC 33:III.2103.C.1.a and b.
- 201 [LAC 33:III.2103.D] Equip with an external floating roof consisting of a pontoon type roof, double deck type roof, or external floating cover which will rest or float on the surface of the liquid contents and is equipped with a primary closure seal to close the space between the roof edge and tank wall and a continuous secondary seal (a rim mounted secondary) extending from the floating roof to the tank wall.
- 202 [LAC 33:III.2103.H.1] Determine compliance with LAC 33:III.2103.D.2 using the methods in LAC 33:III.2103.H.1.
- 203 [LAC 33:III.2103.H.3] Determine VOC maximum true vapor pressure using the methods in LAC 33:III.2103.H.3.a-e.
- 204 [LAC 33:III.2103.I] Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep records of the information specified in LAC 33:III.2103.I.1 - 7, as applicable.

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EQT 0018 8-78 - Crude Oil Loading Dock 2

205 [LAC 33:III.501.C.6] No materials with a vapor pressure greater than 1.5 psia shall be loaded at this dock.

EQT 0019 18-78 - Gasoline Storage Tank

206 [40 CFR 63.11116(a)] Do not allow gasoline to be handled in a manner that would result in vapor releases to the atmosphere for extended periods of time. Measures to be taken include, but are not limited to, those specified in 40 CFR 63.11116(a)(1) through (a)(4). Subpart CCCCCC. [40 CFR 63.11116(a)]

207 [40 CFR 63.11116(b)] Have records available within 24 hours of a request by DEQ to document gasoline throughput. Subpart CCCCCC. [40 CFR 63.11116(b)]

208 [LAC 33:III.2103.A] Equip with a submerged fill pipe.

209 [LAC 33:III.2103.H.3] Determine VOC maximum true vapor pressure using the methods in LAC 33:III.2103.H.3.a-e.

210 [LAC 33:III.2103.I] Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in LAC 33:III.2103.I.1 through I.7, as applicable. Maintain records for at least two years.

EQT 0027 TLO-1 - Tank Landing Operations

211 [LAC 33:III.501.C.6] During Tank Landing Operations the facility shall comply with all applicable federal and state requirements and regulations for all tanks being serviced.

EQT 0028 TCO-1 - Tank Cleaning Operations

212 [LAC 33:III.501.C.6] During the cleaning operations the facility shall comply with all the applicable federal and state requirements and regulations for all tanks taken out of service for cleaning.

EQT 0030 VCU - Marine Vapor Combustion Unit (Dock 1)

213 [40 CFR 64.3(b)(3)] Specific QA/QC Procedures: Calibrate, operate, and maintain instrumentation using procedures that take into account manufacturer's specifications. [40 CFR 64.3(b)(3)]

214 [40 CFR 64.4(e)] Comply with the submitted implementation plan and schedule for installing, testing and performing any other appropriate activities prior to use of the monitoring, if any of the approved monitoring in this permit requires installation, testing, or other necessary activities prior to use of the monitoring for purposes of 40 CFR 64. Implement monitoring as expeditiously as practicable after approval of the monitoring pursuant to 40 CFR 64.6, but in no case shall the period for completing installation and beginning operation of the monitoring exceed 180 days after approval of the permit. [40 CFR 64.4(e)]

215 [40 CFR 64.6(c)(1)] Combustion Chamber Temperature monitored by technically sound method continuously. [40 CFR 64.6(c)(1)]
Which Months: All Year Statistical Basis: One-hour rolling average

216 [40 CFR 64.6(c)(2)] An excursion or exceedance is defined as a combustion chamber temperature of less than (<) 1106 °F for greater than 5% of the total operating time during a rolling hour average period after startup. The VCU will shut down and loading operations cease when the 5% threshold has been exceeded. [40 CFR 64.6(c)(2)]

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EQT 0030 VCU - Marine Vapor Combustion Unit (Dock 1)

- 217 [40 CFR 64.6(c)(2)] Submit Notification: Submit to DEQ within 5 working days upon the establishment or reestablishment of any exceedance or excursion level, for purposes of responding to and reporting exceedances or excursions under 40 CFR 64.7 and 64.8. [40 CFR 64.6(c)(2)]
- 218 [40 CFR 64.6(c)(4)] Equipment/operational data recordkeeping by electronic or hard copy at the approved frequency. [40 CFR 64.6(c)(4)]
- 219 [40 CFR 64.7(a)] Conduct the monitoring required under 40 CFR 64 upon issuance of a part 70 or 71 permit that includes such monitoring, or by such later date specified in the permit pursuant to 40 CFR 64.6(d). [40 CFR 64.7(a)]
- 220 [40 CFR 64.7(b)] Maintain the monitoring required under 40 CFR 64 at all times, including but not limited to maintaining necessary parts for routine repairs of the monitoring equipment. [40 CFR 64.7(b)]
- 221 [40 CFR 64.7(c)] Conduct all monitoring required under 40 CFR 64 in continuous operation (or collect data at all required intervals) at all times that the pollutant-specific emissions unit is operating, except for, as applicable, monitoring malfunctions, associated repairs, and required quality assurance or control activities (including, as applicable, calibration checks and required zero and span adjustments). Do not use data recorded during monitoring malfunctions, associated repairs, and required quality assurance or control activities for purposes of 40 CFR 64, including data averages and calculations, or for fulfilling a minimum data availability requirement, if applicable. Use all the data collected during all other periods in assessing the operation of the control device and associated control system. [40 CFR 64.7(c)]
- 222 [40 CFR 64.7(d)(1)] Restore operation of the pollutant-specific emissions unit (including the control device and associated capture system) to its normal or usual manner of operation as expeditiously as practicable upon detecting an excursion or exceedance, in accordance with good air pollution control practices for minimizing emissions. Minimize the period of any startup, shutdown or malfunction, and take any necessary corrective actions to restore normal operation and prevent the likely recurrence of the cause of an excursion or exceedance (other than those caused by excused startup or shutdown conditions). [40 CFR 64.7(d)(1)]
- 223 [40 CFR 64.7(e)] Submit written notification: Due to the Office of Environmental Compliance within 72 hours upon identifying a failure to achieve compliance with the combustion chamber temperature standard for which, after approval of monitoring under 40 CFR 64, the approved monitoring did not provide an indication of an excursion or exceedance while providing valid data, or the results of compliance or performance testing document a need to modify the existing indicator ranges or designated conditions. If necessary, submit a proposed modification to the part 70 or 71 permit to address the necessary monitoring changes. [40 CFR 64.7(e)]
- 224 [40 CFR 64.8(a)] The number of combustion chamber temperature excursions above 5 percent of operation hours is the threshold limit of excursions or exceedances at which implementation of a QIP is required. [40 CFR 64.8(a)]
- 225 [40 CFR 64.9(a)] Submit report: Due on and after the date specified in 40 CFR 64.7(a) by which the owner or operator must use monitoring that meets the requirements of 40 CFR 64. Submit monitoring reports to the DEQ in accordance with 40 CFR 70.6(a)(3)(iii). Include in a report for monitoring under 40 CFR 64, at a minimum, the information required under 40 CFR 70.6(a)(3)(iii) and the information specified in 40 CFR 64.9(a)(2)(i) through (a)(2)(iii), as applicable. [40 CFR 64.9(a)]
- 226 [40 CFR 64.9(b)(1)] Comply with the recordkeeping requirements specified in 40 CFR 70.6(a)(3)(ii). [40 CFR 64.9(b)(1)]
- 227 [40 CFR 64.9(b)(1)] Equipment/operational data recordkeeping by electronic or hard copy at the approved frequency. Maintain records of monitor performance data, corrective actions taken, any written quality improvement plan required pursuant to 40 CFR 64.8 and any activities undertaken to implement a quality improvement plan, and other supporting information required to be maintained under 40 CFR 64 (such as data used to document the adequacy of monitoring, or records of monitoring maintenance or corrective actions). Maintain these records for a period of at least five years. [40 CFR 64.9(b)(1)]

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EQT 0030 VCU - Marine Vapor Combustion Unit (Dock 1)

- 228 [40 CFR 64.9(b)(1)] Monitoring data recordkeeping by electronic or hard copy at the approved frequency. Maintain these records for a period of at least five years.
[40 CFR 64.9(b)(1)]
- 229 [LAC 33:III.1101.B] Opacity \leq 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.
Which Months: All Year Statistical Basis: None specified
- 230 [LAC 33:III.1313.C] Total suspended particulate \leq 0.6 lb/MMBTU of heat input.
Which Months: All Year Statistical Basis: None specified
- 231 [LAC 33:III.2108.C.2] VOC, Total \geq 90 % reduction by weight.
Which Months: All Year Statistical Basis: None specified
- 232 [LAC 33:III.2108.E.6] Submit notification: Due to the LDEQ at least 30 days prior to performing any emission test.
- 233 [LAC 33:III.2108.E] Determine compliance with LAC 33:III.2108.C.3 using the methods in LAC 33:III.2108.E.1 through E.5, as appropriate.
- 234 [LAC 33:III.2108.F.1] Submit test results: Due to the LDEQ within 60 days of any testing done in accordance with LAC 33:III.2108.E.
- 235 [LAC 33:III.2108.F.2] Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in LAC 33:III.2108.F.2.a through 2.e, as applicable.

FUG 0001 9-78 - Fugitive Emissions

- 236 [LAC 33:III.2111] Equip all rotary pumps and compressors handling volatile organic compounds having a true vapor pressure of 1.5 psia or greater at handling conditions with mechanical seals or other equivalent equipment.

GRP 0002 TANKCAP - Crude Oil Storage Tank Mass Emission Cap

Group Members: EQT 0004EQT 0005EQT 0006EQT 0007EQT 0008EQT 0009EQT 0027EQT 0028

- 237 [LAC 33:III.501.C.6] VOC, Total \leq 122.61 tons/yr. Noncompliance with this limitation is a reportable violation of the permit. Notify the Office of Environmental Compliance, if the total overall calculated VOC emissions based on the throughput (material, vapor pressure, etc.), number of tanks cleaned, and the number of roof landing occurrences for the tanks included in the cap exceeds the maximum listed in this specific condition for any twelve consecutive month period.
Which Months: All Year Statistical Basis: None specified
- 238 [LAC 33:III.507.H.1.a] Submit report: Due annually, by the 31st of March. Report the calculated VOC emissions based on the throughput (material, vapor pressure, etc.) of each tank, number of tanks cleaned, and number of roof landing incidences for the preceding calendar year to the Office of Environmental Compliance. This report can be combined with reports required under LAC 33:III.535.
- 239 [LAC 33:III.507.H.1.a] VOC, Total monitored by technically sound method continuously. The overall VOC emissions shall be calculated based on the throughput (material, vapor pressure, etc.) of each tank, number of tanks cleaned, and number of roof landing incidences.
Which Months: All Year Statistical Basis: None specified

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GRP 0002 TANKCAP - Crude Oil Storage Tank Mass Emission Cap

- 240 [LAC 33:III.507.H.1.a] VOC, Total recordkeeping by electronic or hard copy monthly. Keep records of the total calculated VOC emissions based on the throughput (material, vapor pressure, etc.) of each tank, number of tanks cleaned, and number of roof landing incidences each month, as well as the total calculated VOC emissions based on the throughput (material, vapor pressure, etc.) of each tank, number of tanks cleaned, and number of roof landing incidences for the last twelve months. Make records available for inspection by DEQ personnel.

CRG 0001 ICE CRG 1 - Fire Pump Engine Common Requirements

Group Members: EQT 0022

- 241 [40 CFR 63.6603(a)] Change oil and filter every 500 hours of operation or annually, whichever comes first. Subpart ZZZZ. [40 CFR 63.6603(a)]
- 242 [40 CFR 63.6603(a)] Equipment/operational data monitored by visual inspection/determination annually or every 1,000 hours of operation, whichever comes first. Inspect air cleaner, and replace as necessary. Subpart ZZZZ. [40 CFR 63.6603(a)]
Which Months: All Year Statistical Basis: None specified
- 243 [40 CFR 63.6603(a)] Equipment/operational data monitored by visual inspection/determination annually or every 500 hours of operation, whichever comes first. Inspect all hoses and belts, and replace as necessary. Subpart ZZZZ. [40 CFR 63.6603(a)]
Which Months: All Year Statistical Basis: None specified
- 244 [40 CFR 63.6603(a)] Minimize the engine's time spent at idle and minimize the engine's startup time at startup to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes. Subpart ZZZZ. [40 CFR 63.6603(a), 40 CFR 63.6625(h)]
- 245 [40 CFR 63.6604(b)] Beginning January 1, 2015, use diesel fuel that meets the requirements in 40 CFR 80.510(b) for nonroad diesel fuel, except that any existing diesel fuel purchased (or otherwise obtained) prior to January 1, 2015, may be used until depleted. Subpart ZZZZ. [40 CFR 63.6604(b)]
- 246 [40 CFR 63.6605(a)] Be in compliance with the applicable emission limitations, operating limitations and other requirements in 40 CFR 63 Subpart ZZZZ at all times. Subpart ZZZZ. [40 CFR 63.6605(a)]
- 247 [40 CFR 63.6605(b)] Operate and maintain at all times in a manner consistent with safety and good air pollution control practices for minimizing emissions. Subpart ZZZZ. [40 CFR 63.6605(b)]
- 248 [40 CFR 63.6625(e)] Operate and maintain the stationary RICE and after-treatment control device (if any) according to the manufacturer's emission-related written instructions or develop a maintenance plan which provides to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions. Subpart ZZZZ. [40 CFR 63.6625(e)]
- 249 [40 CFR 63.6625(f)] Install a non-resettable hour meter. Subpart ZZZZ. [40 CFR 63.6625(f)]
- 250 [40 CFR 63.6640(a)] Demonstrate continuous compliance with each applicable emission limitation, operating limitation, and other requirements in 40 CFR 63 Subpart ZZZZ Tables 1a and 1b, Tables 2a and 2b, Table 2c, and Table 2d according to methods specified in 40 CFR 63 Subpart ZZZZ Table 6. Subpart ZZZZ. [40 CFR 63.6640(a)]

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CRG 0001 ICE CRG 1 - Fire Pump Engine Common Requirements

- 251 [40 CFR 63.6640(f)(2)] Operate for the purpose of maintenance checks and readiness testing, provided that the tests are recommended by Federal, State or local government, the manufacturer, the vendor, the regional transmission organization or equivalent balancing authority and transmission operator, or the insurance company associated with the engine; operate for emergency demand response for periods in which the Reliability Coordinator under the North American Electric Reliability Corporation (NERC) Reliability Standard EOP-002-3, Capacity and Energy Emergencies (incorporated by reference, see 40 CFR 63.14), or other authorized entity as determined by the Reliability Coordinator, has declared an Energy Emergency Alert Level 2 as defined in the NERC Reliability Standard EOP-002-3; operate for periods where there is a deviation of voltage or frequency of 5 percent or greater below standard voltage or frequency. Limit these operations to 100 hours per year. Subpart ZZZZ. [40 CFR 63.6640(f)(2)]
- 252 [40 CFR 63.6640(f)(4)] Operate up to 50 hours per year in non-emergency situations, but count those 50 hours towards the 100 hours per year provided for maintenance and testing and emergency demand response provided in 40 CFR 63.6640(f)(2). Do not use the 50 hours per year for peak shaving or non-emergency demand response, or to generate income for a facility to supply power to an electric grid or otherwise supply power as part of a financial arrangement with another entity. Prior to May 3, 2014, the 50 hours per year for non-emergency situations can be used for peak shaving or non-emergency demand response to generate income for a facility, or to otherwise supply power as part of a financial arrangement with another entity if the engine is operated as part of a peak shaving (load management program) with the local distribution system operator and the power is provided only to the facility itself or to support the local distribution system. The 50 hours per year for non-emergency situations can be used to supply power as part of a financial arrangement with another entity if all of the conditions in 40 CFR 63.6640(f)(4)(ii)(A) through (f)(4)(ii)(E) are met. Subpart ZZZZ. [40 CFR 63.6640(f)(4)]
- 253 [40 CFR 63.6655] Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in 40 CFR 63.6655(a) through (f), as applicable. Subpart ZZZZ.
- 254 [LAC 33:III.1101.B] Opacity \leq 20 percent, except for emissions that have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes. Determine opacity by using Method 9 of 40 CFR Part 60, Appendix A or by using a continuous opacity monitoring system (COMS) meeting the requirements outlined in 40 CFR 60.13(c) and (d).
Which Months: All Year Statistical Basis: None specified
- 255 [LAC 33:III.1311.C] Opacity \leq 20 percent, except for emissions that have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.
Which Months: All Year Statistical Basis: Six-minute average

CRG 0002 ICE CRG 2 - Generator Engine (Diesel) Common Requirements

Group Members: EQT 0024

- 256 [40 CFR 63.6603(a)] Change oil and filter every 500 hours of operation or annually, whichever comes first. Subpart ZZZZ. [40 CFR 63.6603(a)]
- 257 [40 CFR 63.6603(a)] Equipment/operational data monitored by visual inspection/determination annually or every 1,000 hours of operation, whichever comes first. Inspect air cleaner, and replace as necessary. Subpart ZZZZ. [40 CFR 63.6603(a)]
Which Months: All Year Statistical Basis: None specified

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AI ID: 32798 - Shell Pipeline Co LP - Sugarland Pipeline Station/Terminal

Activity Number: PER20170001

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Air - Title V Significant Modification

CRG 0002 ICE CRG 2 - Generator Engine (Diesel) Common Requirements

- 258 [40 CFR 63.6603(a)] Equipment/operational data monitored by visual inspection/determination annually or every 500 hours of operation, whichever comes first. Inspect all hoses and belts, and replace as necessary. Subpart ZZZZ. [40 CFR 63.6603(a)]
Which Months: All Year Statistical Basis: None specified
- 259 [40 CFR 63.6603(a)] Minimize the engine's time spent at idle and minimize the engine's startup time at startup to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes. Subpart ZZZZ. [40 CFR 63.6603(a), 40 CFR 63.6625(h)]
- 260 [40 CFR 63.6604(b)] Beginning January 1, 2015, use diesel fuel that meets the requirements in 40 CFR 80.510(b) for nonroad diesel fuel, except that any existing diesel fuel purchased (or otherwise obtained) prior to January 1, 2015, may be used until depleted. Subpart ZZZZ. [40 CFR 63.6604(b)]
- 261 [40 CFR 63.6605(a)] Be in compliance with the applicable emission limitations, operating limitations and other requirements in 40 CFR 63 Subpart ZZZZ at all times. Subpart ZZZZ. [40 CFR 63.6605(a)]
- 262 [40 CFR 63.6605(b)] Operate and maintain at all times in a manner consistent with safety and good air pollution control practices for minimizing emissions. Subpart ZZZZ. [40 CFR 63.6605(b)]
- 263 [40 CFR 63.6625(e)] Operate and maintain the stationary RICE and after-treatment control device (if any) according to the manufacturer's emission-related written instructions or develop a maintenance plan which provides to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions. Subpart ZZZZ. [40 CFR 63.6625(e)]
- 264 [40 CFR 63.6625(f)] Install a non-resettable hour meter. Subpart ZZZZ. [40 CFR 63.6625(f)]
- 265 [40 CFR 63.6640(a)] Demonstrate continuous compliance with each applicable emission limitation, operating limitation, and other requirements in 40 CFR 63 Subpart ZZZZ Tables 1a and 1b, Tables 2a and 2b, Table 2c, and Table 2d according to methods specified in 40 CFR 63 Subpart ZZZZ Table 6. Subpart ZZZZ. [40 CFR 63.6640(a)]
- 266 [40 CFR 63.6640(f)(2)] Operate for the purpose of maintenance checks and readiness testing, provided that the tests are recommended by Federal, State or local government, the manufacturer, the vendor, the regional transmission organization or equivalent balancing authority and transmission operator, or the insurance company associated with the engine; operate for emergency demand response for periods in which the Reliability Coordinator under the North American Electric Reliability Corporation (NERC) Reliability Standard EOP-002-3, Capacity and Energy Emergencies (incorporated by reference, see 40 CFR 63.14), or other authorized entity as determined by the Reliability Coordinator, has declared an Energy Emergency Alert Level 2 as defined in the NERC Reliability Standard EOP-002-3; operate for periods where there is a deviation of voltage or frequency of 5 percent or greater below standard voltage or frequency. Limit these operations to 100 hours per year. Subpart ZZZZ. [40 CFR 63.6640(f)(2)]
- 267 [40 CFR 63.6640(f)(4)] Operate up to 50 hours per year in non-emergency situations, but count those 50 hours towards the 100 hours per year provided for maintenance and testing and emergency demand response provided in 40 CFR 63.6640(f)(2). Do not use the 50 hours per year for peak shaving or non-emergency demand response, or to generate income for a facility to supply power to an electric grid or otherwise supply power as part of a financial arrangement with another entity. Prior to May 3, 2014, the 50 hours per year for non-emergency situations can be used for peak shaving or non-emergency demand response to generate income for a facility, or to otherwise supply power as part of a financial arrangement with another entity if the engine is operated as part of a peak shaving (load management program) with the local distribution system operator and the power is provided only to the facility itself or to support the local distribution system. The 50 hours per year for non-emergency situations can be used to supply power as part of a financial arrangement with another entity if all of the conditions in 40 CFR 63.6640(f)(4)(ii)(A) through (f)(4)(ii)(E) are met. Subpart ZZZZ. [40 CFR 63.6640(f)(4)]

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CRG 0002 ICE CRG 2 - Generator Engine (Diesel) Common Requirements

- 268 [40 CFR 63.6655] Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in 40 CFR 63.6655(a) through (f), as applicable. Subpart ZZZZ.
- 269 [LAC 33:III.1101.B] Opacity \leq 20 percent, except for emissions that have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes. Determine opacity by using Method 9 of 40 CFR Part 60, Appendix A or by using a continuous opacity monitoring system (COMS) meeting the requirements outlined in 40 CFR 60.13(c) and (d).
Which Months: All Year Statistical Basis: None specified
- 270 [LAC 33:III.1311.C] Opacity \leq 20 percent, except for emissions that have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.
Which Months: All Year Statistical Basis: Six-minute average

UNF 0001 Entire Facility - Sugarland Pipeline Station/Terminal

- 271 [40 CFR 60.] All affected facilities shall comply with all applicable provisions in 40 CFR 60 Subpart A.
- 272 [40 CFR 63.] All affected facilities shall comply with all applicable provisions in 40 CFR 63 Subpart A as delineated in Table 8 of 40 CFR 63 Subpart ZZZZ and Table 3 of 40 CFR 63 Subpart CCCCCC.
- 273 [LAC 33:III.1103] Emissions of smoke which pass onto or across a public road and create a traffic hazard by impairment of visibility as defined in LAC 33:III.111 or intensifies an existing traffic hazard condition are prohibited.
- 274 [LAC 33:III.2113.A] Maintain best practical housekeeping and maintenance practices at the highest possible standards to reduce the quantity of organic compounds emissions. Good housekeeping shall include, but not be limited to, the practices listed in LAC 33:III.2113.A.1-5.
- 275 [LAC 33:III.219] Failure to pay the prescribed application fee or annual fee as provided herein, within 90 days after the due date, will constitute a violation of these regulations and shall subject the person to applicable enforcement actions under the Louisiana Environmental Quality Act including, but not limited to, revocation or suspension of the applicable permit, license, registration, or variance.
- 276 [LAC 33:III.2901.D] Discharges of odorous substances at or beyond property lines which cause a perceived odor intensity of six or greater on the specified eight point butanol scale as determined by Method 41 of LAC 33:III.2901.G are prohibited.
- 277 [LAC 33:III.2901.F] If requested to monitor for odor intensity, take and transport samples in a manner which minimizes alteration of the samples either by contamination or loss of material. Evaluate all samples as soon after collection as possible in accordance with the procedures set forth in LAC 33:III.2901.G.
- 278 [LAC 33:III.535] Comply with the Part 70 General Conditions as set forth in LAC 33:III.535 and the Louisiana General Conditions as set forth in LAC 33:III.537. [LAC 33:III.535, LAC 33:III.537]
- 279 [LAC 33:III.5611.A] Submit standby plan for the reduction or elimination of emissions during an Air Pollution Alert, Air Pollution Warning, or Air Pollution Emergency: Due within 30 days after requested by the administrative authority.
- 280 [LAC 33:III.5611.B] During an Air Pollution Alert, Air Pollution Warning or Air Pollution Emergency, make the standby plan available on the premises to any person authorized by the department to enforce these regulations.

SPECIFIC REQUIREMENTS

AI ID: 32798 - Shell Pipeline Co LP - Sugarland Pipeline Station/Terminal

Activity Number: PER20170001

Permit Number: 2560-00034-V9

Air - Title V Significant Modification

UNF 0001 Entire Facility - Sugarland Pipeline Station/Terminal

281 [LAC 33:III.905]

Install air pollution control facilities whenever practically, economically, and technologically feasible. When facilities have been installed on a property, use them and diligently maintain them in proper working order whenever any emissions are being made which can be controlled by the facilities, even though the ambient air quality standards in affected areas are not exceeded.

282 [LAC 33:III.919]

Submit Emission Inventory (EI)/Annual Emissions Statement: Due annually, by the 30th of April to the Office of Environmental Services, for the reporting period of the previous calendar year that coincides with period of ownership or operatorship, unless otherwise directed by DEQ. Submit both an emissions inventory and the certification statement required by LAC 33:III.919.F.1.c, separately for each AI, in a format specified by DEQ. Include the information specified in LAC 33:III.919.F.1.a through F.1.d.
