Permit Number 56508, PSDTX1444M1 and GHGPSDTX191

This table lists the maximum allowable emission rates and all sources of air contaminants on the applicant's property covered by this permit. The emission rates shown are those derived from information submitted as part of the application for permit and are the maximum rates allowed for these facilities, sources, and related activities. Any proposed increase in emission rates may require an application for a modification of the facilities covered by this permit.

Air Contaminants Data

Emission Point	Source Name (2)	Air Contaminant Name (3)	Emissio	n Rates
No. (1)	Source Name (2)		lbs/hour	TPY (4)
MVCU1-A	Marine Vapor	NO _x	2.71	4.12
	Combustor Unit 1-A	СО	0.68	1.03
		SO ₂	33.13	66.10
		VOC	2.18	3.23
		PM	0.34	0.51
		PM ₁₀	0.34	0.51
		PM _{2.5}	0.34	0.51
		H ₂ S	0.02	0.04
		CO ₂ (7)		11,294
		CH ₄ (7)		0.45
		N ₂ O (7)		0.09
		CO _{2e}		11,332

Emission Point	Source Name (2)	Air Contaminant	Emissio	n Rates
No. (1)	No. (1) Name	Name (3)	lbs/hour	TPY (4)
MVCU1	Marine Vapor Combustion Unit 1	NO _x	8.21	3.28
	Combustion Onit 1	СО	4.97	1.99
		SO ₂	91.45	46.27
		VOC	12.02	4.52
		PM	0.93	0.37
		PM ₁₀	0.93	0.37
		PM _{2.5}	0.93	0.37
		H ₂ S	0.10	0.05
		CO ₂ (7)		8,175
		CH ₄ (7)		0.33
		N ₂ O (7)		0.07
		CO _{2e}		8,203
MVCU1-FUG	Marine vapor	VOC	0.16	0.69
	Combustor Unit 1 Fugitives (6)	H₂S	<0.01	<0.01
		CH ₄ (7)		0.20
		CO _{2e}		5.06

Emission Point	Source Name (2)	Air Contaminant	Emissio	on Rates
No. (1)	Source Name (2)	Name (3)	lbs/hour	TPY (4)
MVCU2	Marine Vapor Combustion Unit 2	NO _x	14.93	
	Combustion Onit 2	со	4.33	
		SO ₂	79.52	
		VOC	5.22	
		PM	0.81	
		PM ₁₀	0.81	Con Annual Con
		PM _{2.5}	0.81	See Annual Cap
		H ₂ S	0.04	
		CO ₂ (7)		
		CH ₄ (7)		
		N ₂ O (7)		
		CO _{2e}		
MVCU2-FUG	Marine Vapor Combustor Unit 2	VOC	0.16	0.69
	Fugitives	H ₂ S	<0.01	<0.01
		CH ₄ (7)		0.20
		CO _{2e}		5.06

Emission Point	Source Name (2)	Air Contaminant	Emis	sion Rates
No. (1)	Source Name (2)	Name (3)	lbs/hour	TPY (4)
MVCU3	Marine Vapor	NO _x	16.35	
	Combustion Unit 3	СО	5.41	
		SO ₂	99.40	
		VOC	6.53	
		PM	1.01	
		PM ₁₀	1.01	Con Annual Con
		PM _{2.5}	1.01	See Annual Cap
		H ₂ S	0.05	
		CO ₂ (7)		
		CH ₄ (7)		
		N ₂ O (7)		
		CO _{2e}		
MVCU3-FUG	Marine Vapor Combustor Unit 3	VOC	0.16	0.69
	Fugitives	H ₂ S	<0.01	<0.01
		CH ₄ (7)		0.20
		CO _{2e}		5.06
MVCU4	Marine Vapor Combustion Unit 4	NOx	11.47	
	Combustion offit 4	СО	4.33	
		SO ₂	79.52	
		VOC	5.22	
		PM	0.81	See Annual Cap
		PM ₁₀	0.81	
		PM _{2.5}	0.81	
		H ₂ S	0.04	
		CO ₂ (7)		

Emission Point	Source Name (2)	Air Contaminant	Emissi	on Rates
No. (1)	Source Name (2)	Name (3)	lbs/hour	TPY (4)
		CH ₄ (7)		
		N ₂ O (7)		
		CO _{2e}		
MVCU4-FUG	Marine Vapor	VOC	0.16	0.69
	Combustor Unit 4 Fugitives	H ₂ S	<0.01	<0.01
		CH ₄ (7)		0.20
		CO _{2e}		5.06
MVCU5	Marine Vapor Combustion Unit 5	NOx	6.49	
	Combustion Unit 5	СО	1.62	
		SO ₂	79.52	
		VOC	5.22	
		PM	0.81	
		PM ₁₀	0.81	One Assuration
		PM _{2.5}	0.81	See Annual Cap
		H ₂ S	0.04	
		CO ₂ (7)		
		CH ₄ (7)		
		N ₂ O (7)		
		CO _{2e}		
MVCU5-FUG	Marine Vapor Combustor Unit 5	VOC	0.16	0.69
	Fugitives	H ₂ S	<0.01	<0.01
		CH ₄ (7)		0.20
		CO _{2e}		5.06

Emission Point	Source Name (2)	Air Contaminant	Emissio	n Rates
No. (1)	Name (3)	lbs/hour	TPY (4)	
MVCU6	Marine Vapor Combustion Unit 6	NO _x	6.49	
	Combustion Onit 6	СО	1.62	
		SO ₂	79.52	
		VOC	5.22	
		PM	0.81	
		PM ₁₀	0.81	Occ. Annual Occ.
		PM _{2.5}	0.81	See Annual Cap
		H ₂ S	0.04	
		CO ₂ (7)		
		CH ₄ (7)		
		N ₂ O (7)		
		CO _{2e}		
MVCU6-FUG	Marine Vapor	VOC	0.16	0.69
	Combustor Unit 6 Fugitives	H ₂ S	<0.01	<0.01
		CH ₄ (7)		0.20
		CO _{2e}		5.06

Emission Point	Source Name (2)	Air Contaminant	Emissio	on Rates
No. (1)	Source Name (2)	Name (3)	lbs/hour	TPY (4)
MVCU7	Marine Vapor Combustion Unit 7	NO _x	6.49	
	Combustion onit 7	СО	1.62	
		SO ₂	79.52	
		VOC	5.22	
		PM	0.81	
		PM ₁₀	0.81	Os a Assural Cas
		PM _{2.5}	0.81	See Annual Cap
		H ₂ S	0.04	
		CO ₂ (7)		
		CH ₄ (7)		
		N ₂ O (7)		
		CO _{2e}		
MVCU7-FUG	Marine Vapor Combustor Unit 7	VOC	0.16	0.69
	Fugitives	H ₂ S	<0.01	<0.01
		CH ₄ (7)		0.20
		CO _{2e}		5.06

Emission Point	Source Name (2)	Air Contaminant	Emissic	on Rates
No. (1)	Name (3)	lbs/hour	TPY (4)	
MVCU8	Marine Vapor Combustion Unit 8	NO _x	6.49	
	Combustion Onit 8	СО	1.62	
		SO ₂	79.52	
		VOC	5.22	
		PM	0.81	
		PM ₁₀	0.81	Occ. Append Occ.
		PM _{2.5}	0.81	See Annual Cap
		H ₂ S	0.04	
		CO ₂ (7)		
		CH ₄ (7)		
		N ₂ O (7)		
		CO _{2e}		
MVCU8-FUG	Marine Vapor Combustor Unit 8	VOC	0.21	0.79
	Fugitives	H₂S	<0.01	<0.01
		CH ₄ (7)		0.20
		CO _{2e}		5.06

Emission Point	Source Name (2)	Air Contaminant	Emissio	n Rates
No. (1)	Source Name (2)	Name (3)	lbs/hour	TPY (4)
COMBUSTCAP	Combustion Unit 2, 3, 4, 5, 6, 7 and 8 Emissions Cap	NO _x		49.94
		со		15.15
		SO ₂		524.29
		VOC		25.63
		PM		4.36
		PM ₁₀		4.36
		PM _{2.5}		4.36
		H ₂ S		0.28
		CO ₂ (7)		96,181
		CH ₄ (7)		3.87
		N ₂ O (7)		0.77
		CO _{2e}		96,509
LOADBDA	Barge Dock A Loading Fugitives	voc	6.22	
		H ₂ S	<0.01	
LOADBDB	Barge Dock B Loading Fugitives	voc	6.22	
		H ₂ S	<0.01	
LOADBDC	Barge Dock C Loading Fugitives	VOC	6.22	18.65
		H ₂ S	<0.01	<0.01
LOADBDD	Barge Dock D Loading	VOC	6.22	
	Fugitives	H ₂ S	<0.01	
LOADBDE	Barge Dock E Loading	VOC	6.22	
	Fugitives	H ₂ S	<0.01	
LOADSD1	Ship Dock 1 Loading Fugitives	VOC	13.43	
	i ugitives	H ₂ S	0.04	

Emission Point	Source Name (2) Air Contaminant	Emissio	n Rates	
No. (1)	Source Name (2)	Name (3)	lbs/hour	TPY (4)
LOADSD2		voc	14.92	
	Fugitives	H ₂ S	0.04	
LOADSD3	Ship Dock 3 Loading Fugitives	VOC	14.92	7.46
	rugilives	H₂S	<0.01	<0.01
LOADSD4	Ship Dock 4 Loading Fugitives	VOC	14.92	
	rugilives	H ₂ S	0.04	
LOADSD5	Ship Dock 5 Loading Fugitives	VOC	14.92	
	i ugilives	H ₂ S	0.04	
LOADSD6	DSD6 Ship Dock 6 Loading Fugitives	VOC	14.92	
		H ₂ S	0.04	
LOADSD7	Ship Dock 7 Loading	VOC	14.92	
	Fugitives	H ₂ S	0.04	
LOADSD8	Ship Dock 8 Loading Fugitives	voc	14.92	
	T ugitives	H ₂ S	0.04	
LOADCAP	Docks A, D, E, 2, 4, 5,	VOC		18.94
	6, 7, and 8 Loading Emission Cap	H ₂ S		0.21
LOADCAP2	Docks B and 1 Loading Emission Cap	voc		1.87
	Loading Emission Cap	H ₂ S		0.01
LBDAFUG	Barge Dock A Component Fugitives	voc	0.21	0.79
	(5)	H ₂ S	<0.01	<0.01
LBDBFUG	Barge Dock B Component Fugitives	VOC	0.21	0.79
	(5)	H ₂ S	<0.01	<0.01
LBDCFUG	Barge Dock C Component Fugitives	VOC	0.21	0.79
	(5)	H ₂ S	<0.01	<0.01

Emission Point	Source Name (2)	Air Contaminant	Emissi	on Rates
No. (1)	Source Name (2)	Name (3)	lbs/hour	TPY (4)
LBDDFUG	Barge Dock D	VOC	0.21	0.79
	Component Fugitives (5)	H ₂ S	<0.01	<0.01
LBDEFUG	Barge Dock E Component Fugitives	voc	0.21	0.79
	(5)	H ₂ S	<0.01	<0.01
LSD1FUG	Ship Dock 1 Component Fugitives	voc	0.21	0.79
	(5)	H ₂ S	<0.01	<0.01
LSD2FUG	Ship Dock 2	voc	0.21	0.79
	Component Fugitives (5)	H ₂ S	<0.01	<0.01
LSD3FUG	Ship Dock 3	voc	0.21	0.79
	Component Fugitives (5)	H ₂ S	<0.01	<0.01
LSD4FUG	Ship Dock 4	VOC	0.21	0.79
	Component Fugitives (5)	H ₂ S	<0.01	<0.01
LSD5FUG	Ship Dock 5 Component Fugitives	VOC	0.21	0.79
	Component rugitives	H ₂ S	<0.01	<0.01
LSD6FUG	Ship Dock 6 Component Fugitives	VOC	0.21	0.79
	(5)	H ₂ S	<0.01	<0.01
LSD7FUG	Ship Dock 7 Component Fugitives	VOC	0.21	0.79
	(5)	H ₂ S	<0.01	<0.01
LSD8FUG	Ship Dock 8 Component Fugitives	VOC	0.21	0.79
	/ 5 \	H ₂ S	<0.01	<0.01

(1) Emission point identification - either specific equipment designation or emission point number from plot plan.

(2) Specific point source name. For fugitive sources, use area name or fugitive source name.

(3) VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1

NO_x - total oxides of nitrogen

SO₂ - sulfur dioxide

PM - total particulate matter, suspended in the atmosphere, including PM10 and PM2.5, as represented

PM₁₀ - total particulate matter equal to or less than 10 microns in diameter, including PM2.5, as represented

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Emission Sources - Maximum Allowable Emission Rates

PM_{2.5} - particulate matter equal to or less than 2.5 microns in diameter
CO - carbon monoxide
H₂S - hydrogen sulfide
CO₂ - carbon dioxide
N₂O - nitrous oxide

CH₄ - methane

CO_{2e} - carbon dioxide equivalents based on the following Global Warming Potentials (1/2015): CO₂ (1), N₂O (298) and CH₄(25).

- (4) Compliance with annual emission limits (tons per year) is based on a 12-month rolling period.
- (5) Emission rate is an estimate and is enforceable through compliance with the applicable special condition(s) and permit application representations.
- (6) EPN MVCU1-FUG includes MVCU1 and MVCU 1-A fugitives.
- (7) Emission rate is given for informational purposes only and does not constitute an enforceable limit.

Date: July 13, 2020
