Emission Sources - Maximum Allowable Emission Rates

Permit Numbers 118901 and PSDTX1408

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 No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
1A	Boiler 1	NO_x	1.06	see BOILERCAP
		CO	3.46	
		VOC	0.52	
		PM	0.71	
		PM_{10}	0.71	
		$PM_{2.5}$	0.71	
		SO_2	0.57	
1B	Boiler 2	NO_x	1.06	see BOILERCAP
		CO	3.46	
		VOC	0.52	
		PM	0.71	
		PM_{10}	0.71	
		$PM_{2.5}$	0.71	
		SO_2	0.57	
1C	Boiler 3	NO_x	1.06	see BOILERCAP
		CO	3.46	
		VOC	0.52	
		PM	0.71	
		PM_{10}	0.71	
		$PM_{2.5}$	0.71	
		SO_2	0.57	

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BOILERCAP	Boiler 1A to 1C Cap	NO_x	3.17	11.11
		CO	10.37	36.35
		VOC	1.55	5.42
		PM	2.14	7.49
		PM_{10}	2.14	7.49
		$PM_{2.5}$	2.14	7.49
		SO_2	1.72	6.04
2A	Small Boiler	NO_x	1.32	5.78
		CO	0.48	2.09
		VOC	0.07	0.31
		PM	0.10	0.43
		PM_{10}	0.10	0.43
		$PM_{2.5}$	0.10	0.43
		SO_2	0.08	0.35
HTR1	Hot Oil Heater 1	NO_x	1.42	6.24
		CO	1.45	6.33
		VOC	0.22	0.94
		PM	0.30	1.31
		PM_{10}	0.30	1.31
		$PM_{2.5}$	0.30	1.31
		SO_2	0.24	1.05
SHIP FUG	Ship Dock Fugitives	VOC	82.18	151.18
		TRS/H_2S	0.14	0.26
VAPCOMB1	Vapor Combustor 1	NO_x	21.69	see VAPCOMBCAP
		CO	39.84	
		VOC	72.30	
		TRS/H_2S	0.05	
		PM	1.08	
		PM_{10}	1.08	
		$PM_{2.5}$	1.08	
		SO_2	8.98	
VAPCOMB2	Vapor Combustor 2	NO_x	21.69	see VAPCOMBCAP
		CO	39.84	
		VOC	72.30	

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		TRS/H_2S	0.05	
		PM	1.08	
		PM_{10}	1.08	
		$PM_{2.5}$	1.08	
		SO_2	8.98	
VAPCOMB3	Vapor Combustor 3	NO_x	21.69	see VAPCOMBCAP
		CO	39.84	
		VOC	72.30	
		TRS/H_2S	0.05	
		PM	1.08	
		PM_{10}	1.08	
		$PM_{2.5}$	1.08	
		SO_2	8.98	
VAPCOMBCAP	Emissions Cap for Vapor Combustors 1-3	NO_x		228.01
		CO		418.77
		VOC		660.32
		TRS/H_2S		0.51
		PM		11.40
		PM_{10}		11.40
		$PM_{2.5}$		11.40
		SO_2		96.78
TCOMB1	Temporary Control Unit 1	NO_x	2.13	see TCOMBCAP
		CO	1.23	
		VOC	7.47	
		TRS/H_2S	<0.01	
		PM	0.12	
		PM_{10}	0.12	
		$PM_{2.5}$	0.12	
		SO_2	0.08	

Emission Sources - Maximum Allowable Emission Rates

TCOMB2	Temporary Control Unit 2	NO_x	2.13	see TCOMBCAP
		CO	1.23	
		VOC	7.47	
		TRS/H_2S	<0.01	
		PM	0.12	
		PM_{10}	0.12	
		$PM_{2.5}$	0.12	
		SO_2	0.08	
TCOMB3	Temporary Control Unit 3	NO_x	2.13	see TCOMBCAP
		CO	1.23	
		VOC	7.47	
		TRS/H_2S	<0.01	
		PM	0.12	
		PM_{10}	0.12	
		$PM_{2.5}$	0.12	
		SO_2	0.08	
TCOMB4	Temporary Control Unit 4	NO_x	2.13	see TCOMBCAP
		CO	1.23	
		VOC	7.47	
		TRS/H_2S	<0.01	
		PM	0.12	
		PM_{10}	0.12	
		$PM_{2.5}$	0.12	
		SO_2	0.08	
TCOMB5	Temporary Control Unit 5	NO_x	2.13	see TCOMBCAP
		CO	1.23	
		VOC	7.47	
		TRS/H_2S	<0.01	
		PM	0.12	
		PM_{10}	0.12	
		$PM_{2.5}$	0.12	
		SO_2	0.08	
TCOMBCAP	Temporary Control Units Caps	NO_x	see TCOMB1 to TCOMB5	16.19
		CO		9.34

Emission Sources - Maximum Allowable Emission Rates

		VOC		27.70
		TRS/H_2S		0.02
		PM		0.88
		PM_{10}		0.88
		$PM_{2.5}$		0.88
		SO_2		0.30
IFRTK-LND	Large and Medium Internal Floating Roof Landing	VOC	34.27	See EPN: FRCAP
		TRS/H_2S	0.02	
IFRTK1	Medium Internal Floating Roof Tank 1	VOC	3.72	See EPN: FRCAP
		TRS/H_2S	<0.01	
IFRTK2	Medium Internal Floating Roof Tank 2	VOC	3.72	See EPN: FRCAP
		TRS/H_2S	<0.01	
IFRTK3	Medium Internal Floating Roof Tank 3	VOC	3.72	See EPN: FRCAP
		TRS/H_2S	<0.01	
IFRTK4	Medium Internal Floating Roof Tank 4	VOC	3.72	See EPN: FRCAP
		TRS/H_2S	<0.01	
IFRTK5	Medium Internal Floating Roof Tank 5	VOC	3.72	See EPN: FRCAP
		TRS/H_2S	<0.01	
IFRTK6	Medium Internal Floating Roof Tank 6	VOC	3.72	See EPN: FRCAP
		TRS/H_2S	<0.01	
IFRTK7	Medium Internal Floating Roof Tank 7	VOC	3.72	See EPN: FRCAP
		TRS/H_2S	<0.01	
IFRTK8	Medium Internal Floating Roof Tank 8	VOC	3.72	See EPN: FRCAP
		TRS/H_2S	<0.01	
IFRTK9	Medium Internal Floating Roof Tank 9	VOC	3.72	See EPN: FRCAP
		TRS/H_2S	<0.01	
IFRTK10	Medium Internal Floating Roof Tank 10	VOC	3.72	See EPN: FRCAP
		TRS/H_2S	<0.01	
IFRTK11	Medium Internal Floating Roof Tank 11	VOC	3.72	See EPN: FRCAP
		TRS/H_2S	<0.01	
IFRTK12	Medium Internal Floating Roof Tank 12	VOC	3.72	See EPN: FRCAP
		TRS/H_2S	<0.01	

Emission Sources - Maximum Allowable Emission Rates

IFRTK13	Medium Internal Floating Roof Tank 13	VOC	3.72	See EPN: FRCAP
		TRS/H_2S	<0.01	
IFRTK14	Medium Internal Floating Roof Tank 14	VOC	3.72	See EPN: FRCAP
		TRS/H_2S	<0.01	
IFRTK15	Medium Internal Floating Roof Tank 15	VOC	3.72	See EPN: FRCAP
		TRS/H_2S	<0.01	
IFRTK16	Medium Internal Floating Roof Tank 16	VOC	3.74	See EPN: FRCAP
		TRS/H_2S	<0.01	
IFRTK17	Medium Internal Floating Roof Tank 17	VOC	3.74	See EPN: FRCAP
		TRS/H_2S	<0.01	
LIFRTK1	Large Internal Floating Roof Tank 1	VOC	6.05	See EPN: FRCAP
		TRS/H_2S	<0.01	
LIFRTK2	Large Internal Floating Roof Tank 2	VOC	5.94	See EPN: FRCAP
		TRS/H_2S	<0.01	
LIFRTK3	Large Internal Floating Roof Tank 3	VOC	5.90	See EPN: FRCAP
		TRS/H_2S	<0.01	
FRCAP	Emissions Cap for Floating Roof Tanks	VOC	See IFRTK1-17, LIFRTK1-3, & IFRTK-LND	227.84
		TRS/H_2S		0.13
FXHO1	Hot Oil Tank 1	VOC	<0.01	<0.01
FWP1	Fire Water Pump 1	NO_x	1.82	0.05
		CO	0.27	0.01
		VOC	0.07	<0.01
		PM	0.04	<0.01
		PM_{10}	0.04	<0.01
		$PM_{2.5}$	0.04	<0.01
		SO_2	0.63	0.02
FWP2	Fire Water Pump 2	NO_x	1.82	0.05
		CO	0.27	0.01
		VOC	0.07	<0.01
		PM	0.04	<0.01
		PM_{10}	0.04	<0.01
		$PM_{2.5}$	0.04	<0.01

Emission Sources - Maximum Allowable Emission Rates

		SO_2	0.63	0.02
FUG	Fugitive Emissions (5)	VOC	3.98	17.41
		TRS/H_2S	<0.01	0.01
MSS	MSS Activities	VOC	60.90	1.90
		TRS/H_2S	0.03	<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
SO_2 - sulfur dioxide
H_2S - hydrogen sulfide
TRS - total reduced sulfur
PM - total particulate matter, suspended in the atmosphere, including PM_{10} and $PM_{2.5}$, as represented
PM_{10} - total particulate matter equal to or less than 10 microns in diameter, including $PM_{2.5}$, as represented
$PM_{2.5}$ - particulate matter equal to or less than 2.5 microns in diameter
CO - carbon monoxide
(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.

Date: January 31, 2019