Emission Sources - Maximum Allowable Emission Rates

Permit Number 20660 and PSDTX795M2

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.

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
1	Cooper-Bessemer Engine Model GMVH-12 2,400-hp	NOx	15.86	46.31
		CO	15.86	46.31
		VOC	2.71	11.87
		SO2	0.01	0.06
		PM	1.08	4.75
		PM10	1.08	4.75
		PM2.5	1.08	4.75
2	Clark Engine Model TLAB-6 2,000-hp	NOx	84.58	308.72
		CO	8.99	32.8
		VOC	1.95	8.56
		SO2	0.31	1.12
		PM	0.79	3.45
		PM10	0.79	3.45
		PM2.5	0.79	3.45
3	Clark Engine Model TLAB-6 2,000-hp	NOx	84.58	308.72
		CO	8.99	32.8
		VOC	1.95	8.56
		SO2	0.31	1.12
		PM	0.79	3.45
		PM10	0.79	3.45
		PM2.5	0.79	3.45

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6	Hot Oil Heater 17 MMBtu/hr	NOx	1.68	7.36
		CO	1.41	6.18
		VOC	0.09	0.4
		SO2	0.01	0.04
		PM	0.13	0.56
		PM10	0.13	0.56
		PM2.5	0.13	0.56
10A	Ingersoll-Rand Engine Model IR-KVS-8 1,330-hp	NOx	59.31	216.49
		CO	3.49	12.73
		VOC	1.76	7.64
		SO2	0.33	1.20
		PM	0.12	0.43
		PM10	0.12	0.43
		PM2.5	0.12	0.43
10B	Ingersoll-Rand Engine Model IR-KVS-8 1,330-hp	NOx	59.31	216.49
		CO	3.49	12.73
		VOC	1.76	7.64
		SO2	0.33	1.20
		PM	0.12	0.43
		PM10	0.12	0.43
		PM2.5	0.12	0.43
11	Glycol Reboiler 9.3 MMBtu/hr	NOx	0.91	4.00

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		CO	0.77	3.36
		VOC	0.05	0.22
		SO2	0.01	0.02
		PM	0.07	0.3
		PM10	0.07	0.3
		PM2.5	0.07	0.3
14	Glycol Still Vent	VOC	6.00	20.00
		Benzene	0.25	0.70
21	Cooper-Bessemer Engine Model GMVH-12C2 2,700-hp	NOx	17.84	52.10
		CO	17.84	52.10
		VOC	1.87	8.17
		SO2	0.01	0.04
		PM	0.75	3.27
		PM10	0.75	3.27
		PM2.5	0.75	3.27
22	Cooper-Bessemer Engine Model GMVH-12C2 2,700-hp	NOx	17.84	52.1
		CO	17.84	52.1
		VOC	1.87	8.17
		SO2	0.01	0.04
		PM	0.75	3.27
		PM10	0.75	3.27
		PM2.5	0.75	3.27
23	Cooper-Bessemer Engine Model GMVH-12C2 2,700-hp	NOx	17.84	52.1
		CO	17.84	52.1
		VOC	1.87	8.17
		SO2	0.01	0.04

Emission Sources - Maximum Allowable Emission Rates

		PM	0.75	3.27
		PM10	0.75	3.27
		PM2.5	0.75	3.27
26	Hot Oil Heater 39 MMBtu/hr	NOx	2.34	10.25
		CO	3.21	14.07
		VOC	0.21	0.92
		SO2	0.02	0.1
		PM	0.29	1.27
		PM10	0.29	1.27
		PM2.5	0.29	1.27
FLARE3	North Flare	NOx	4.37	--
		CO	37.20	--
		VOC	42.82	--
		SO2	50.48	--
		H2S	0.55	--
	North Flare Plant MSS	NOx	92.82	--
		CO	369.60	--
		VOC	255.70	--
		SO2	402.43	--
		H2S	4.00	--
29	West Flare	NOx	4.37	--
		CO	37.20	--
		VOC	42.82	--
		SO2	50.48	--
		H2S	0.55	--
	West Flare Plant MSS	NOx	35.06	--

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		CO	139.60	--
		VOC	96.55	--
		SO2	152.00	--
		H2S	1.50	
FLARE3 and 29	North and West Flares Combined Annual Limits	NOx	--	15.85
		CO	--	135.80
		VOC	--	156.31
		SO2	--	184.24
		H2S	--	2.00
	North and West Flares - MSS Combined Annual Limits	NOx	--	29.40
		CO	--	117.01
		VOC	--	81.00
		SO2	--	127.39
		H2S	--	1.27
30	TP Glycol Reboiler 15 MMBtu/hr	NOx	1.48	6.47
		CO	1.24	5.44
		VOC	0.08	0.36
		SO2	0.01	0.04
		PM	0.11	0.49
		PM10	0.11	0.49
		PM2.5	0.11	0.49

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NGLFUG	Fugitives (5)	VOC	9.08	39.76
		H2S	0.04	0.2
CO2FUG	Fugitives (5)	VOC	9.33	41.07
		H2S	1.27	5.67
VRUFUG	VRU Fugitives (5)	VOC	0.05	0.22
		H2S	0.01	0.02

(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
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
H_2S - hydrogen sulfide
(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: October 13, 2015