Emission Sources - Maximum Allowable Emission Rates

Permit Numbers 8925, PSDTX206M1, and PSDTX432M2

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)
4	800-hp White Superior 8G-825 (11)	CO	5.29	23.15
		NO_X (7)	3.52	15.44
		PM_{10}	0.14	0.60
		SO_2	0.01	0.01
		VOC	1.76	7.72
11A	730-hp Caterpillar 399TA-LCR (11)	CO	4.82	21.13
		NO_X	0.80	3.52
		PM_{10}	0.14	0.60
		SO_2	0.01	0.01
		VOC	1.61	7.04
12A	730-hp Caterpillar 399TA-LCR (11)	CO	4.82	21.13
		NO_X (7)	0.80	3.52
		PM_{10}	0.14	0.60
		SO_2	0.01	0.01
		VOC	1.61	7.04
13A	730-hp Caterpillar 399TA-LCR (11)	CO	4.82	21.13
		NO_X (7)	3.22	14.09
		PM_{10}	0.11	0.48
		SO_2	0.01	0.01
		VOC	1.61	7.04

Emission Sources - Maximum Allowable Emission Rates

14B	1,232-hp Waukesha L-7042 GL (11)	CO	8.20	35.70
		NO_X	1.36	5.95
		PM_{10}	0.10	0.40
		SO_2	0.01	0.01
		VOC	2.70	11.90
15	1,050-hp Waukesha L-7042 GSIU (8) (11)	CO	9.30	40.60
		NO_X (7)	4.60	20.30
		PM_{10}	0.20	0.70
		SO_2	0.01	0.01
		VOC	0.23	1.00
17	500-hp Caterpillar 398 NA (8) (11)	CO	3.30	14.50
		NO_X	0.55	2.41
		PM_{10}	0.10	0.30
		SO_2	0.01	0.01
		VOC	0.20	0.70
18	750-hp Caterpillar 399TA-LCR (11)	CO	4.96	21.71
		NO_X	0.83	3.62
		PM_{10}	0.14	0.60
		SO_2	0.01	0.01
		VOC	1.65	7.24
19B	750-hp Caterpillar 399TA-LCR (11)	CO	4.96	21.71
		NO_X	0.83	3.62
		PM_{10}	0.14	0.60
		SO_2	0.01	0.01
		VOC	1.65	7.24
24	2,100-hp MEP 8GT Engine (6) (9)	CO	19.20	83.90
		NO_X	24.20	106.10
		PM_{10}	0.73	3.20

Emission Sources - Maximum Allowable Emission Rates

		SO_2	0.01	0.01
		VOC	1.85	8.10
25	2,100-hp MEP 8GT Engine (6) (9)	CO	19.20	83.90
		NO_X	24.20	106.10
		PM_{10}	0.94	4.10
		SO_2	0.01	0.01
		VOC	1.85	8.10
35	H-1B Regeneration Gas Heater	CO	0.90	4.00
		NO_X	1.10	4.80
		PM_{10}	0.10	0.40
		SO_2	0.01	0.01
		VOC	0.30	0.30
41	E-P Glycol Regenerator Gas Heater	CO	0.23	1.00
		NO_X	0.30	1.10
		PM_{10}	0.03	0.10
		SO_2	0.01	0.01
		VOC	0.03	0.10
44	Fire Water Pump No. 1 (10) (100 hours per rolling 12 months)	CO	1.10	0.10
		NO_X	5.20	0.30
		PM_{10}	0.50	0.01
		SO_2	0.50	0.01
		VOC	0.20	0.01
45	Fire Water Pump No. 2 (10) (100 hours per rolling 12 months)	CO	1.10	0.10
		NO_X	5.20	0.30
		PM_{10}	0.50	0.01
		SO_2	0.50	0.01
		VOC	0.20	0.01
48	800-hp Caterpillar G399TAA Engine (6) (9)	CO	5.30	23.20

Emission Sources - Maximum Allowable Emission Rates

		NO_X	5.30	23.20
		PM_{10}	0.10	0.30
		SO_2	0.01	0.01
		VOC	0.71	3.10
49	800-hp Caterpillar G399TAA Engine (6) (8)	CO	5.30	23.20
		NO_X	0.88	3.86
		PM_{10}	0.12	0.50
		SO_2	0.01	0.01
		VOC	0.14	0.60
50	800-hp Caterpillar G399TAA Engine (6) (8)	CO	5.30	23.20
		NO_X	0.88	3.86
		PM_{10}	0.12	0.50
		SO_2	0.01	0.01
		VOC	0.14	0.60
51	800-hp Caterpillar G399TAA Engine (6) (8)	CO	5.30	23.20
		NO_X	0.88	3.86
		PM_{10}	0.12	0.50
		SO_2	0.01	0.01
		VOC	0.14	0.60
52A	800-hp Caterpillar G399TAA Engine (6) (8)	CO	5.30	23.20
		NO_X	0.88	3.86
		PM_{10}	0.12	0.50
		SO_2	0.01	0.01
		VOC	0.14	0.60
57	1,478-hp Waukesha L-7042GL Engine	CO	9.77	42.78
		NO_X	6.51	28.51
		PM_{10}	0.12	0.50
		SO_2	0.01	0.01

Emission Sources - Maximum Allowable Emission Rates

		VOC	2.29	10.00
58A	800-hp Superior 8G-825 Compressor Engine	CO	3.53	15.43
		NO_X	0.88	3.86
		PM_{10}	0.14	0.60
		SO_2	0.01	0.02
		VOC	1.76	7.73
64	H-301 Regen. Gas Heater	CO	0.92	4.00
		NO_X	1.10	4.80
		PM_{10}	0.10	0.40
		SO_2	0.01	0.01
		VOC	0.10	0.30
65	M4 Inlet Glycol Reconc. Heater	CO	0.16	0.70
		NO_X	0.20	0.80
		PM_{10}	0.03	0.10
		SO_2	0.01	0.01
		VOC	0.01	0.01
66	Routine Process Flare	CO	109.40	17.20
		H_2S	0.01	0.01
		NO_X	54.80	8.50
		SO_2	0.48	0.07
		VOC	218.00	33.20
70	Unit 4 Swing Amine Vent	VOC	2.54	11.10
73VNT	Plant 1 Amine Unit Regenerator Vent	VOC	2.54	11.12
74VNT	Plant 2 Amine Unit Regenerator Vent	VOC	2.80	12.20
75VNT	Plant 3 Amine Unit Regenerator Vent	VOC	2.65	11.60
C-5A	4,333-hp Solar Centaur T-4700 (11)	CO	5.00	21.70
		NO_X	6.80	29.70

Emission Sources - Maximum Allowable Emission Rates

		PM_{10}	0.30	1.30
		SO_2	0.03	0.10
		VOC	1.44	6.30
C-5B	4,333-hp Solar Centaur T-4700 (11)	CO	5.00	21.70
		NO_X	6.80	29.70
		PM_{10}	0.30	1.30
		SO_2	0.03	0.10
		VOC	1.44	6.30
C-6A	1,400-hp Waukesha 7044 GSI (11)	CO	9.26	40.56
		NO_X	1.54	6.76
		PM_{10}	0.23	1.00
		SO_2	0.03	0.10
		VOC	3.09	13.52
C-6A1 (12)	1,400-hp Waukesha 7044 GSI (11)	CO	--	--
		NO_X	--	--
		PM_{10}	--	--
		SO_2	--	--
		VOC	--	--
C-6B	1,400-hp Waukesha 7044 GSI (11)	CO	9.26	40.56
		NO_X	1.54	6.76
		PM_{10}	0.23	1.00
		SO_2	0.03	0.10
		VOC	3.09	13.52
G-101	1,160-hp Waukesha 7042 GSI (11)	CO	7.67	33.60
		NO_X	1.28	5.60
		PM_{10}	0.16	0.70

Emission Sources - Maximum Allowable Emission Rates

		SO_2	0.03	0.10
		VOC	2.56	11.20
G-102	1,160-hp Waukesha 7042 GSI (11)	CO	7.67	33.60
		NO_X	1.28	5.60
		PM_{10}	0.16	0.70
		SO_2	0.03	0.10
		VOC	2.56	11.20
G-103	1,160-hp Waukesha 7042 GSI (11)	CO	7.67	33.60
		NO_X	1.28	5.60
		PM_{10}	0.16	0.70
		SO_2	0.03	0.10
		VOC	2.56	11.20
G-104	1,160-hp Waukesha 7042 GSI (11)	CO	7.67	33.60
		NO_X	1.28	5.60
		PM_{10}	0.16	0.70
		SO_2	0.03	0.10
		VOC	2.56	11.20
P5-VNT	Plant 5 Amine Still Vent	VOC	1.23	5.40
TK-33	New Oil Storage Tank	VOC	0.01	0.02
TK-34	Used Oil Storage Tank	VOC	0.01	0.01
FUG	Plant Process Fugitives (5)	VOC	18.90	82.79

Emission Sources - Maximum Allowable Emission Rates

(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) CO - carbon monoxide
H_2S - hydrogen sulfide
NO_X - total oxides of nitrogen
PM_{10} - total particulate matter equal to or less than 10 microns in diameter, including $PM_{2.5}$, as represented
SO_2 - sulfur dioxide
VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
(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) These sources are included in Permit No. PSDTX432M2.
(7) This pollutant is subject to Permit No. PSDTX206M1.
(8) Equipped with a catalytic converter.
(9) Clean burn engine.
(10) These engines, Emission Point Nos. (EPNs) 44 and 45, shall only be operated for a maximum of 104 hours per year.
(11) Equipped with non-selective catalytic converter and air-fuel ratio controller.
(12) Engine EPN C-6A1 is an in-kind replacement for EPN C-6A. When EPN C-6A1 becomes operational, the authorized emissions associated with EPN C-6A will instead become associated with EPN C-6A1.

Date: March 23, 2016