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)
11B	730-hp Caterpillar G-399TA (11)	CO	4.83	21.15
		NO_X	0.80	3.52
		PM	0.11	0.50
		PM_{10}	0.11	0.50
		$PM_{2.5}$	0.11	0.50
		SO_2	<0.01	0.02
		VOC	1.61	7.05
12A	730-hp Caterpillar 399TA-LCR (11)	CO	4.83	21.15
		NO_X (7)	0.80	3.52
		PM	0.11	0.50
		PM_{10}	0.11	0.50
		$PM_{2.5}$	0.11	0.50
		SO_2	<0.01	0.02
		VOC	1.61	7.05
13A	730-hp Caterpillar 399TA-LCR (11)	CO	4.83	21.15
		NO_X (7)	0.80	3.52
		PM	0.11	0.50
		PM_{10}	0.11	0.50
		$PM_{2.5}$	0.11	0.50
		SO_2	<0.01	0.02
		VOC	1.61	7.05
14B	1,232-hp Waukesha L-7042 GSI (11)	CO	8.15	35.69
		NO_X	1.36	5.95

Emission Sources - Maximum Allowable Emission Rates

		PM	0.09	0.40
		PM_{10}	0.09	0.40
		$PM_{2.5}$	0.09	0.40
		SO_2	0.01	0.02
		VOC	2.72	11.90
15A	1,067-hp Waukesha L-7042 GSI (8) (11)	CO	7.06	30.91
		NO_X (7)	1.18	5.15
		PM	0.15	0.68
		PM_{10}	0.15	0.68
		$PM_{2.5}$	0.15	0.68
		SO_2	0.01	0.02
		VOC	1.76	7.73
18	750-hp Caterpillar 399TA-LCR (11)	CO	4.96	21.73
		NO_X	0.83	3.62
		PM	0.12	0.51
		PM_{10}	0.12	0.51
		$PM_{2.5}$	0.12	0.51
		SO_2	<0.01	0.02
		VOC	1.65	7.24
19C	750-hp Caterpillar B-399TA (11)	CO	4.96	21.73
		NO_X	0.83	3.62
		PM	0.12	0.51
		PM_{10}	0.12	0.51
		$PM_{2.5}$	0.12	0.51
		SO_2	<0.01	0.02
		VOC	1.65	7.24
24	2,100-hp MEP 8GT Engine (6) (9)	CO	19.16	83.90
		NO_X	24.22	106.10

Emission Sources - Maximum Allowable Emission Rates

		PM	0.72	3.15
		PM_{10}	0.72	3.15
		$PM_{2.5}$	0.72	3.15
		SO_2	0.01	0.04
		VOC	1.85	8.11
25	2,100-hp MEP 8GT Engine (6) (9)	CO	19.16	83.90
		NO_X	24.22	106.10
		PM	0.72	3.15
		PM_{10}	0.72	3.15
		$PM_{2.5}$	0.72	3.15
		SO_2	0.01	0.04
		VOC	1.85	8.11
35	H-1B Regeneration Gas Heater	CO	0.92	4.05
		NO_X	1.10	4.82
		PM	0.08	0.37
		PM_{10}	0.08	0.37
		$PM_{2.5}$	0.08	0.37
		SO_2	0.01	0.03
		VOC	0.06	0.26
41	E-P Glycol Regenerator Gas Heater	CO	0.23	1.00
		NO_X	0.27	1.18
		PM	0.02	0.09
		PM_{10}	0.02	0.09
		$PM_{2.5}$	0.02	0.09
		SO_2	<0.01	0.01
		VOC	0.01	0.07
44	Fire Water Pump No. 1 (10) (100 hours per rolling 12 months)	CO	1.14	0.06
		NO_X	5.17	0.26

Emission Sources - Maximum Allowable Emission Rates

		PM	0.50	0.02
		PM_{10}	0.50	0.02
		$PM_{2.5}$	0.50	0.02
		SO_2	0.46	0.02
		VOC	0.16	0.01
45	Fire Water Pump No. 2 (10) (100 hours per rolling 12 months)	CO	1.14	0.06
		NO_X	5.17	0.26
		PM	0.50	0.02
		PM_{10}	0.50	0.02
		$PM_{2.5}$	0.50	0.02
		SO_2	0.46	0.02
		VOC	0.16	0.01
48A	800-hp Caterpillar G-399TAA (6) (9)	CO	5.29	23.18
		NO_X	0.88	3.86
		PM	0.12	0.54
		PM_{10}	0.12	0.54
		$PM_{2.5}$	0.12	0.54
		SO_2	<0.01	0.02
		VOC	0.35	1.55
49A	800-hp Caterpillar G-399TAA (6) (8)	CO	5.29	23.18
		NO_X	0.88	3.86
		PM	0.12	0.51
		PM_{10}	0.12	0.51
		$PM_{2.5}$	0.12	0.51
		SO_2	<0.01	0.02
		VOC	0.13	0.58
50A	800-hp Caterpillar G-399TAA (6) (8)	CO	5.29	23.18
		NO_X	0.88	3.86

Emission Sources - Maximum Allowable Emission Rates

		PM	0.12	0.51
		PM_{10}	0.12	0.51
		$PM_{2.5}$	0.12	0.51
		SO_2	<0.01	0.02
		VOC	0.13	0.58
51A	800-hp Caterpillar G-399TAA (6) (8)	CO	5.29	23.18
		NO_X	0.88	3.86
		PM	0.12	0.51
		PM_{10}	0.12	0.51
		$PM_{2.5}$	0.12	0.51
		SO_2	<0.01	0.02
		VOC	0.13	0.58
52B	800-hp Caterpillar G-399TAA (6) (8)	CO	5.29	23.18
		NO_X	0.88	3.86
		PM	0.12	0.51
		PM_{10}	0.12	0.51
		$PM_{2.5}$	0.12	0.51
		SO_2	<0.01	0.02
		VOC	0.13	0.58
57A	1,478-hp Waukesha L-7042GL	CO	9.77	42.78
		NO_X	6.51	28.51
		PM	0.11	0.50
		PM_{10}	0.11	0.50
		$PM_{2.5}$	0.11	0.50
		SO_2	0.01	0.03
		VOC	2.28	10.00
58C	800-hp Superior 8G-825 Compressor Engine	CO	3.52	15.43
		NO_X	0.88	3.86

Emission Sources - Maximum Allowable Emission Rates

		PM	0.14	0.60
		PM_{10}	0.14	0.60
		$PM_{2.5}$	0.14	0.60
		SO_2	<0.01	0.03
		VOC	1.76	7.73
64	H-301 Regen. Gas Heater	CO	0.92	4.05
		NO_X	1.10	4.82
		PM	0.08	0.37
		PM_{10}	0.08	0.37
		$PM_{2.5}$	0.08	0.37
		SO_2	0.01	0.03
		VOC	0.06	0.26
65	TEG Regeneration Heater	CO	0.15	0.66
		NO_X	0.18	0.79
		PM	0.01	0.06
		PM_{10}	0.01	0.06
		$PM_{2.5}$	0.01	0.06
		SO_2	<0.01	0.01
		VOC	0.01	0.04
66	Routine Process Flare	CO	125.61	23.67
		H_2S	0.08	0.04
		NO_X	56.65	9.11
		SO_2	6.63	2.76
		VOC	219.55	33.66
72	Emergency Flare	CO	0.07	0.30
		H_2S	<0.01	<0.01
		NO_X	0.03	0.15
		SO_2	<0.01	<0.01

Emission Sources - Maximum Allowable Emission Rates

		VOC	<0.01	<0.01
C-5A1	4,500-hp Solar Centaur T-4700 (11)	CO	5.39	22.60
		NO_X	7.36	30.85
		PM	0.28	1.21
		PM_{10}	0.28	1.21
		$PM_{2.5}$	0.28	1.21
		SO_2	0.02	0.09
		VOC	1.55	6.52
C-5B	4,333-hp Solar Centaur T-4700 (11)	CO	4.97	21.76
		NO_X	6.78	29.70
		PM	0.29	1.27
		PM_{10}	0.29	1.27
		$PM_{2.5}$	0.29	1.27
		SO_2	0.02	0.07
		VOC	1.43	6.28
C-6A1	1,400-hp Waukesha 7044 GSI (11)	CO	9.26	40.56
		NO_X	1.54	6.76
		PM	0.21	0.91
		PM_{10}	0.21	0.91
		$PM_{2.5}$	0.21	0.91
		SO_2	0.01	0.03
		VOC	3.09	13.52
C-6B1	1,680-hp Waukesha L7044 GSI (11)	CO	11.11	48.67
		NO_X	1.85	8.11
		PM	0.25	1.11
		PM_{10}	0.25	1.11
		$PM_{2.5}$	0.25	1.11
		SO_2	0.01	0.03

Emission Sources - Maximum Allowable Emission Rates

		VOC	3.70	16.22
G-101A	1,160-hp Waukesha 7042 GSI (11)	CO	7.67	33.60
		NO_X	1.28	5.60
		PM	0.17	0.76
		PM_{10}	0.17	0.76
		$PM_{2.5}$	0.17	0.76
		SO_2	0.01	0.02
		VOC	2.56	11.20
G-102A	1,160-hp Waukesha 7042 GSI (11)	CO	7.67	33.60
		NO_X	1.28	5.60
		PM	0.17	0.76
		PM_{10}	0.17	0.76
		$PM_{2.5}$	0.17	0.76
		SO_2	0.01	0.02
		VOC	2.56	11.20
G-103A	1,160-hp Waukesha 7042 GSI (11)	CO	7.67	33.60
		NO_X	1.28	5.60
		PM	0.17	0.76
		PM_{10}	0.17	0.76
		$PM_{2.5}$	0.17	0.76
		SO_2	0.01	0.02
		VOC	2.56	11.20
G-104A	1,160-hp Waukesha 7042 GSI (11)	CO	7.67	33.60
		NO_X	1.28	5.60
		PM	0.17	0.76
		PM_{10}	0.17	0.76
		$PM_{2.5}$	0.17	0.76
		SO_2	0.01	0.02

Emission Sources - Maximum Allowable Emission Rates

		VOC	2.56	11.20
TK-33	New Oil Storage Tank	VOC	0.02	<0.01
TK-34	Used Oil Storage Tank	VOC	0.02	<0.01
FUGA	Plant Process Fugitives A (5)(12)	VOC	19.39	84.91
FUGB	Plant Process Fugitives B (5)(12)	VOC	--	--
TO	Thermal Oxidizer	CO	0.65	2.84
		H_2S	0.03	0.15
		NO_X	1.20	5.24
		PM	0.15	0.65
		PM_{10}	0.15	0.65
		$PM_{2.5}$	0.15	0.65
		SO_2	6.21	27.18
		VOC	0.81	3.54
TRUCKLOAD	Truck Loadout	VOC	0.53	0.97

(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 - 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
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) The holder of this permit may allocate at will all, some, or none of the emissions authorized for EPN FUGA to EPN FUGB.

Emission Sources - Maximum Allowable Emission Rates

Date: March 22, 2018