

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Numbers 8925 and PSD-TX- (206M1 and 432M2)

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. 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 *	
			lb/hr	TPY**
4	800 HP White Superior 8G-825 (10)	CO	5.29	23.15
		NO _x (6)	3.52	15.44
		PM ₁₀ 0.14	0.60	
		SO ₂ 0.01	0.01	
		VOC 1.76	7.72	
10B	1478 HP Waukesha L-7042 GL	CO	9.80	42.80
		NO _x 6.50	28.50	
		PM ₁₀ 0.14	0.60	
		SO ₂ 0.01	0.01	
		VOC 2.30	10.08	
11A	730 HP Caterpillar 399TA-LCR (10)	CO	4.82	21.13
		NO _x 3.22	14.09	
		PM ₁₀ 0.14	0.60	
		SO ₂ 0.01	0.01	
		VOC 1.61	7.04	
12	730 HP Caterpillar 399TA-LCR (10)	CO	4.82	21.13
		NO _x (6)	3.22	14.09
		PM ₁₀ 0.14	0.60	
		SO ₂ 0.01	0.01	
		VOC 1.61	7.04	
13	730 HP Caterpillar 399TA-LCR (10)	CO	4.82	21.13
		NO _x (6)	3.22	14.09
		PM ₁₀ 0.14	0.60	
		SO ₂ 0.01	0.01	
		VOC 1.61	7.04	

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			lb/hr	TPY**
14A	1232 HP Waukesha L-7042 GL (10)	CO	8.20	35.70
		NO _x 5.40	23.80	
		PM ₁₀ 0.10	0.40	
		SO ₂ 0.01	0.01	
		VOC 2.70	11.90	
15	1050 HP Waukesha L-7042 GSIU (7) (10)	CO	9.30	40.60
		NO _x (6)	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 (7) (10)	CO	3.30	14.50
		NO _x 2.20	9.70	
		PM ₁₀ 0.10	0.30	
		SO ₂ 0.01	0.01	
		VOC 0.20	0.70	
18	750 HP Caterpillar 399TA-LCR (10)	CO	4.96	21.71
		NO _x 3.30	14.47	
		PM ₁₀ 0.14	0.60	
		SO ₂ 0.01	0.01	
		VOC 1.65	7.24	
19A	750 HP Caterpillar 399TA-LCR (10)	CO	4.96	21.71
		NO _x 3.30	14.47	
		PM ₁₀ 0.14	0.60	
		SO ₂ 0.01	0.01	
		VOC 1.65	7.24	
21	2750 HP MEP 10GT Engine (5)(8)	CO	30.30	132.70
		NO _x	30.30	132.70
		PM ₁₀ 0.94	4.10	
		SO ₂ 0.01	0.01	
		VOC 1.80	8.00	

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			lb/hr	TPY**
23	2750 HP MEP 10GT Engine (5)(8)	CO	30.30	132.70
		NO _x	30.30	132.70
		PM ₁₀ 0.94	4.10	
		SO ₂ 0.01	0.01	
		VOC 1.80	8.00	
24	2100 HP MEP 8GT Engine (5)(8)	CO	19.20	83.90
		NO _x	24.20	106.10
		PM ₁₀ 0.73	3.20	
		SO ₂ 0.01	0.01	
		VOC 1.85	8.10	
25	2100 HP MEP 8GT Engine (5)(8)	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 (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	

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY**
45	Fire Water Pump No. 2 (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 (5)(8)	CO	5.30	23.20
		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 (5)(7)	CO	5.30	23.20
		NO _x	5.30	23.20
		PM ₁₀	0.12	0.50
		SO ₂	0.01	0.01
		VOC	0.14	0.60
50	800 HP Caterpillar G399TAA Engine (5)(7)	CO	5.30	23.20
		NO _x	5.30	23.20
		PM ₁₀	0.12	0.50
		SO ₂	0.01	0.01
		VOC	0.14	0.60
51	800 HP Caterpillar G399TAA Engine (5)(7)	CO	5.30	23.20
		NO _x	5.30	23.20
		PM ₁₀	0.12	0.50
		SO ₂	0.01	0.01
		VOC	0.14	0.60
52	800 HP Caterpillar G399TAA Engine (5)(7)	CO	5.30	23.20
		NO _x	5.30	23.20
		PM ₁₀	0.12	0.50
		SO ₂	0.01	0.01
		VOC	0.14	0.60

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY**
53	550 HP Caterpillar G398TA Engine (7)	CO	3.63	15.90
		NO _x	2.42	10.60
		PM ₁₀	0.10	
		SO ₂	0.01	
		VOC	0.12	0.50
57	1478 HP Waukesha L-7042GL Engine	CO	6.51	28.50
		NO _x	6.51	28.50
		PM ₁₀	0.12	
		SO ₂	0.01	
		VOC	2.29	10.00
58	800 HP Superior 8G-825 Compressor Engine	CO	3.52	15.42
		NO _x	3.52	15.42
		PM ₁₀	0.14	
		SO ₂	0.01	
		VOC	0.18	
64	H-301 Regen Gas Heater	CO	0.92	4.00
		NO _x	1.10	4.80
		PM ₁₀	0.10	
		SO ₂	0.01	
		VOC	0.10	
65	M4 Inlet Glycol Reconc. Heater	CO	0.16	0.70
		NO _x	0.20	0.80
		PM ₁₀	0.03	
		SO ₂	0.01	
		VOC	0.01	
66	Routine Process Flare	CO	109.40	17.20
		H ₂ S	0.01	0.01
		NO _x	54.80	8.50
		SO ₂	0.48	0.07
		VOC	218.00	33.20

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u>	
			<u>lb/hr</u>	<u>TPY**</u>
70	Unit 4 Swing Amine Vent	VOC	2.54	11.10

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY**
73VNT	Plant 1 Amine Unit Regenerator Vent	VOC	11.12	2.54
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	4333 HP Solar Centaur T-4700 (10)	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-5B	4333 HP Solar Centaur T-4700 (10)	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	1400 HP Waukesha 7044 GSI (10)	CO	9.26	40.56
		NO _x	6.17	27.04
		PM ₁₀	0.23	1.00
		SO ₂	0.03	0.10
		VOC	3.09	13.52
C-6B	1400 HP Waukesha 7044 GSI (10)	CO	9.26	40.56
		NO _x	6.17	27.04
		PM ₁₀	0.23	1.00
		SO ₂	0.03	0.10
		VOC	3.09	13.52
G-101	1160 HP Waukesha 7042 GSI (10)	CO	7.67	33.6
		NO _x	5.11	22.4
		PM ₁₀	0.16	0.70
		SO ₂	0.03	0.10
		VOC	2.56	11.20

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u>	
			<u>lb/hr</u>	<u>TPY**</u>

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY**
G-102	1160 HP Waukesha 7042 GSI (10)	CO	7.67	33.6
		NO _x	5.11	22.4
		PM ₁₀	0.16	0.70
		SO ₂	0.03	0.10
		VOC	2.56	11.20
G-103	1160 HP Waukesha 7042 GSI (10)	CO	7.67	33.6
		NO _x	5.11	22.4
		PM ₁₀	0.16	0.70
		SO ₂	0.03	0.10
		VOC	2.56	11.20
G-104	1160 HP Waukesha 7042 GSI (10)	CO	7.67	33.6
		NO _x	5.11	22.4
		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-32	5000 Barrel Condensate Tank	VOC	0.50	2.20
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 (4)	VOC	18.90	82.79

- (1) Emission point identification - either specific equipment designation or emission point number from a plot plan.
- (2) Specific point source names. For fugitive sources, use an area name or fugitive source name.
- (3) CO - carbon monoxide
H₂S - hydrogen sulfide
NO_x - total oxides of nitrogen
PM₁₀ - particulate matter less than 10 microns

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SO₂ - sulfur dioxide

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

101.1

- (4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.
- (5) These sources are included in Permit Number PSD-TX-432M2.
- (6) This pollutant is subject to Permit Number PSD-TX-206M1.
- (7) Equipped with catalytic converter.
- (8) Clean Burn Engine
- (9) These engines (EPNs 44 and 45) shall only be run for a maximum of 104 hours per year
- (10) Equipped with Non-Selective Catalytic Converter (NSCR) and Air-Fuel Ratio Controller (AFR).

* Emission rates are based on and the facilities are limited by the following maximum operating schedule:

24 Hrs/day 7 Days/week 52 Weeks/year

** Compliance with annual emission limits is based on a rolling 12-month period.

Dated_____