

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Number 26395

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**
301A	Compressor Engine No.1 Waukesha L7042GSI (8)	NO _x	6.52	27.90
		CO	9.78	41.84
		SO ₂	0.01	0.03
		VOC	0.82	3.49
		PM ₁₀	0.23	0.96
301A	Compressor Engine No.1 Waukesha L7042GSI (6)	NO _x	35.85	3.59
		CO	26.07	2.61
		SO ₂	0.01	0.01
		VOC	0.82	0.09
		PM ₁₀	0.23	0.03
301B	Compressor Engine No. 2 Waukesha L7042GSI (8)	NO _x	6.52	27.90
		CO	9.78	41.84
		SO ₂	0.01	0.03
		VOC	0.82	3.49
		PM ₁₀	0.23	0.96
301B	Compressor Engine No. 2 Waukesha L7042GSI (6)	NO _x	35.85	3.59
		CO	26.07	2.61
		SO ₂	0.01	0.01
		VOC	0.82	0.09
		PM ₁₀	0.23	0.03
304B	Compressor Engine Waukesha F2895 GU (8)	NO _x	1.86	7.95
		CO	2.79	11.92
		SO ₂	0.01	0.01
		VOC	0.24	1.00
		PM ₁₀	0.08	0.31

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY**
304B	Compressor Engine Waukesha F2895 GU (6)	NO _x	10.21	1.03
		CO	7.43	0.75
		SO ₂	0.01	
		VOC	0.03	
		PM ₁₀	0.01	
305A	Compressor Engine No. 2 Waukesha L7042GU (8)	NO _x	4.52	19.33
		CO	6.78	28.99
		SO ₂	0.01	
		VOC	2.42	
		PM ₁₀	0.64	
305A	Compressor Engine No. 2 Waukesha L7042GU (6)	NO _x	24.84	2.49
		CO	18.07	1.81
		SO ₂	0.01	
		VOC	0.06	
		PM ₁₀	0.02	
305B	Compressor Engine No. 1 Waukesha L7042GU (8)	NO _x	4.52	19.33
		CO	6.78	28.99
		SO ₂	0.01	
		VOC	2.42	
		PM ₁₀	0.64	
305B	Compressor Engine No. 1 Waukesha L7042GU (6)	NO _x	24.84	2.49
		CO	18.07	1.81
		SO ₂	0.01	
		VOC	0.06	
		PM ₁₀	0.02	
C-4	Compressor Engine No. 1 Waukesha L7042GL (8)	NO _x	5.87	25.11
		CO	1.30	5.55
		SO ₂	0.01	0.03
		VOC	0.49	2.10
		PM ₁₀	0.47	

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY**
C-4	Compressor Engine No. 1 Waukesha L7042GL (6)	NO _x	5.87	0.59
		CO	8.64	0.87
		SO ₂	0.01	0.01
		VOC	3.26	0.33
		PM ₁₀	0.11	0.02
C-5	Compressor Engine No. 2 Waukesha L7042GL (8)	NO _x	5.87	25.11
		CO	1.30	5.55
		SO ₂	0.01	0.03
		VOC	0.49	2.10
		PM ₁₀	0.11	0.47
C-5	Compressor Engine No. 2 Waukesha L7042GL (6)	NO _x	5.87	0.59
		CO	8.64	0.87
		SO ₂	0.01	0.01
		VOC	3.26	0.33
		PM ₁₀	0.11	0.02
C-44	Compressor Engine (8) Caterpillar G379TA	NO _x	1.83	7.84
		CO	2.75	11.75
		SO ₂	0.01	0.01
		VOC	0.23	0.98
		PM ₁₀	0.07	0.28
C-44	Compressor Engine Caterpillar G379TA (6)	NO _x	8.97	0.90
		CO	9.79	0.98
		SO ₂	0.01	0.01
		VOC	0.23	0.03
		PM ₁₀	0.07	0.01
G-70	Electric Generator Engine (8) Caterpillar G3412SITA	NO _x	2.65	11.33
		CO	3.97	16.99
		SO ₂	0.01	0.02

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY**
		VOC	0.34	1.42
		PM ₁₀ 0.10	0.39	
G-70	Electric Generator Engine Caterpillar G3412SITA (6)	NO _x	15.48	1.55
		CO	15.48	1.55
		SO ₂	0.01	0.01
		VOC	0.34	0.04
		PM ₁₀ 0.10	0.01	
C-2	Compressor Engine No. 1 Caterpillar G3606LE (8)	NO _x	7.35	31.43
		CO	1.38	5.90
		SO ₂	0.01	0.03
		VOC	0.56	2.36
		PM ₁₀ 0.12	0.50	
C-2	Compressor Engine No. 1 Caterpillar G3606LE (6)	NO _x	7.35	0.74
		CO	9.18	0.92
		SO ₂	0.01	0.01
		VOC	3.68	0.37
		PM ₁₀ 0.12	0.02	
C-3	Compressor Engine No. 2 Caterpillar G3606LE (8)	NO _x	7.35	31.43
		CO	1.38	5.90
		SO ₂	0.01	0.03
		VOC	0.56	2.36
		PM ₁₀ 0.12	0.50	
C-3	Compressor Engine No. 2 Caterpillar G3606LE (6)	NO _x	7.35	0.74
		CO	9.18	0.92
		SO ₂	0.01	0.01
		VOC	3.68	0.37
		PM ₁₀ 0.12	0.02	
C-33	Compressor Engine No. 3 Waukesha L7042GL (8)	NO _x	5.87	25.11
		CO	1.30	5.55

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY**
		SO ₂	0.01	0.03
		VOC	0.49	2.10
		PM ₁₀ 0.11	0.47	
C-33	Compressor Engine No. 3	NO _x	5.87	0.59
	Waukesha L7042GL (6)	CO	8.64	0.87
		SO ₂	0.01	0.01
		VOC	3.26	0.33
		PM ₁₀ 0.11	0.02	
C-34	Compressor Engine No. 4	NO _x	5.87	25.11
	Waukesha L7042GL (8)	CO	1.30	5.55
		SO ₂	0.01	0.03
		VOC	0.49	2.10
		PM ₁₀ 0.11	0.47	
C-34	Compressor Engine No. 4	NO _x	5.87	0.59
	Waukesha L7042GL (6)	CO	8.64	0.87
		SO ₂	0.01	0.01
		VOC	3.26	0.33
		PM ₁₀ 0.11	0.02	
C-35	Compressor Engine No. 5	NO _x	5.87	25.11
	Waukesha L7042GL (8)	CO	1.30	5.55
		SO ₂	0.01	0.03
		VOC	0.49	2.10
		PM ₁₀ 0.11	0.47	
C-35	Compressor Engine No. 5	NO _x	5.87	0.59
	Waukesha L7042GL (6)	CO	8.64	0.87
		SO ₂	0.01	0.01
		VOC	3.26	0.33
		PM ₁₀ 0.11	0.02	
C-36	Compressor Engine (8)	CO	5.49	23.50

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY**
	Caterpillar 399TA	NO _x	1.83	7.84
		PM ₁₀	0.13	0.55
		SO ₂	0.01	0.02
		VOC	0.20	0.84
C-36	Compressor Engine (6)	CO	14.83	1.49
	Caterpillar 399TA	NO _x	17.57	1.76
		PM ₁₀	0.13	0.02
		SO ₂	0.01	0.01
		VOC	0.20	0.02
C-37	Compressor Engine (8)	CO	5.49	23.50
	Caterpillar 399TA	NO _x	1.83	7.84
		PM ₁₀	0.13	0.55
		SO ₂	0.01	0.02
		VOC	0.20	0.84
C-37	Compressor Engine (6)	CO	14.83	1.49
	Caterpillar 399TA	NO _x	17.57	1.76
		PM ₁₀	0.13	0.02
		SO ₂	0.01	0.01
		VOC	0.20	0.02
C-38	Compressor Engine (8)	CO	1.33	5.69
	Caterpillar G-3516TALE	NO _x	5.32	22.76
		PM ₁₀	0.11	0.44
		SO ₂	0.01	0.03
		VOC	0.21	0.88
C-38	Compressor Engine (6)	CO	8.87	0.89
	Caterpillar G-3516TALE	NO _x	5.32	0.54
		PM ₁₀	0.11	0.02
		SO ₂	0.01	0.01
		VOC	1.36	0.14

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AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY**
A7	Glycol Unit Reboiler Plant A	NO _x	0.03	0.13
		CO	0.03	0.11
		SO ₂	0.01	
		VOC	0.01	
		PM ₁₀	0.01	
B-10	Glycol Unit Reboiler No. 1 Plant B	NO _x	0.05	0.22
		CO	0.05	0.19
		SO ₂	0.01	
		VOC	0.01	
		PM ₁₀	0.01	
B-11	Glycol Unit Reboiler No. 2 Plant B	NO _x	0.05	0.22
		CO	0.05	0.19
		SO ₂	0.01	
		VOC	0.01	
		PM ₁₀	0.01	
A8	Regeneration Gas Heater Plant A	NO _x	0.18	0.77
		CO	0.15	0.65
		SO ₂	0.01	
		VOC	0.01	
		PM ₁₀	0.02	
6	Regeneration Gas Heater Plant B	NO _x	0.17	0.73
		CO	0.14	0.61
		SO ₂	0.01	0.01
		PM ₁₀	0.02	0.06
		VOC	0.01	0.04
A10	Plant A Flare (7)	NO _x	203.21	2.64
		CO	405.68	
		SO ₂	0.94	
		VOC	153.25	

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY**
		H ₂ S 0.01	0.01	
7	Plant B Flare (7)	NO _x	159.64	1.97
		CO	318.70	3.94
		SO ₂ 0.74	0.01	
		VOC	120.41	1.46
		H ₂ S 0.01	0.01	
A14	Plant A Glycol Unit Incinerator	CO	0.10	0.41
		H ₂ S	0.01	0.01
		NO _x	0.12	0.49
		PM ₁₀	0.01	0.04
		SO ₂	0.01	0.01
		VOC (5)	0.02	0.05
AD-HR-01	Spent Lube Oil Tank	VOC	0.01	0.01
AD-HR-02	Lube Oil Tank	VOC	0.01	0.01
AD-HR-03	Diesel Tank	VOC	0.01	0.01
AD-HR-04	Gasoline Tank	VOC	0.11	0.23
AD-HR-05	Slop Water Tank	VOC	0.01	0.02
AD-HR-06	Condensate Tank	VOC	0.89	1.95
AD-HR-07	Slop Water Tank	VOC	0.11	0.24
AD-HR-10	Lube Oil Tank	VOC	0.01	0.01
AD-HR-11	Lube Oil Tank	VOC	0.01	0.01
AD-HR-12	Spent Lube Oil Tank	VOC	0.01	0.01

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u>	
			lb/hr	TPY**
AD-HR-13	Lube Oil Tank	VOC	0.01	0.01
AD-HR-14	Lube Oil Tank	VOC	0.01	0.01
AD-HR-15	Lube Oil Tank	VOC	0.01	0.01
AD-HR-16	Slop Water Tank	VOC	0.11	0.22
AD-HR-17	Lube Oil Tank	VOC	0.01	0.01
AD-HR-18	Methanol Tank	VOC	0.01	0.01
AD-HR-20	Ethylene Glycol Tank	VOC	0.01	0.01
AD-HR-21	Ethylene Glycol Tank	VOC	0.01	0.01
AD-HR-22	Ethylene Glycol Tank	VOC	0.01	0.01
AD-HR-23	Lube Oil Tank	VOC	0.01	0.01
AD-HR-24	Triethylene Glycol Tank	VOC	0.01	0.01
AD-HR-25	Triethylene Glycol Tank	VOC	0.01	0.01
AD-HR-28	Lube Oil Tank	VOC	0.01	0.01
AD-HR-30	Methanol Tank	VOC	0.01	0.01
AD-HR-31	Methanol Tank	VOC	0.01	0.01
AD-HR-32	Methanol Tank	VOC	0.06	0.12
AD-HR-33	Methanol Tank	VOC	0.04	0.08
B14	Plant B Glycol Unit Incinerator	CO	0.10	0.43

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY**
		H ₂ S	0.01	0.01
		NO _x	0.12	0.51
		PM ₁₀	0.01	0.04
		SO ₂	0.01	0.01
		VOC (5)	0.02	0.05
HE-805	EG System Reboiler	CO	0.05	0.19
		NO _x	0.05	0.22
		PM ₁₀	0.01	0.02
		SO ₂	0.01	0.01
		VOC	0.01	0.02
LOAD-02	Gasoline Vehicle Loading	VOC	0.40	0.07
LOAD-03	Diesel Vehicle Loading	VOC	0.01	0.01
SLOPLOAD	Slop Oil Truck Loading	VOC	0.06	0.01
FUG-A	Plant A Fugitive Emissions (4)	VOC	0.63	2.76
		H ₂ S	0.01	
FUG-B	Plant B Fugitive Emissions (4)	H ₂ S	0.01	0.01
		VOC	0.71	3.09

(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 equal to or less than 10 microns in diameter. Where PM is not listed, it shall be assumed that no particulate matter greater than 10 microns is emitted.

SO₂ - sulfur dioxide

VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1

(4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable

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			lb/hr	TPY**

emission rate.

(5) Includes BTEX control unit emissions.

(6) Planned maintenance start-up and shut down (MSS) emissions associated with planned catalyst MSS activities are authorized up to 200 hours per calendar year.

(7) Includes planned MSS emissions resulting from plant equipment depressurization activities.

(8) A maximum of up to 8,560 hours per year of operation

* 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 October 23, 2007