

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Number 19592

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**
Eng-A9	Waukesha 12V-AT27GL Compressor A9 Engine	CO	4.23	18.50
		NO _x	13.52	59.20
		PM ₁₀	0.21	0.90
		SO ₂	0.02	0.06
		VOC	0.77	3.37
Eng-A10	Waukesha 12V-AT27GL Compressor A10 Engine	CO	4.23	18.50
		NO _x	13.52	59.20
		PM ₁₀	0.21	0.90
		SO ₂	0.02	0.06
		VOC	0.77	3.37
Eng-B10	Waukesha L7402GSI Refrigeration B10 Engine	CO	9.78	
		NO _x	6.52	
		PM ₁₀	0.23	
		SO ₂	0.01	
		VOC	0.34	
Eng-B11	Waukesha L7402GSI Refrigeration B11 Engine	CO	9.78	
		NO _x	6.52	
		PM ₁₀	0.23	
		SO ₂	0.01	
		VOC	0.34	
Eng-B14	Waukesha L7402GSI Refrigeration B14 Engine	CO	9.78	
		NO _x	6.52	
		PM ₁₀	0.23	
		SO ₂	0.01	
		VOC	0.34	

Permit Number 19592
Page 2

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

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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**
	Combined annual emissions for EPNs Eng-B (10, 11, and 14)	CO		87.98
		NO _x		58.66
		PM ₁₀	2.02	
		SO ₂	0.07	
		VOC	3.01	
Eng-B12	Caterpillar G3612LE Compressor B12 Engine	CO	22.06	96.62
		NO _x	14.71	64.41
		PM ₁₀	0.01	
		SO ₂	0.02	
		VOC	1.99	
Eng-B13	Caterpillar G3612LE Compressor B13 Engine	CO	22.06	96.62
		NO _x	14.71	64.41
		PM ₁₀	0.01	
		SO ₂	0.02	
		VOC	1.99	
Eng-B15	Waukesha 12V-AT27GL Compressor B15 Engine	CO	4.23	18.50
		NO _x	13.52	59.20
		PM ₁₀	0.21	
		SO ₂	0.02	
		VOC	0.77	
Eng-B16	Waukesha 12V-AT27GL Compressor B16 Engine	CO	4.23	18.50
		NO _x	13.52	59.20
		PM ₁₀	0.21	
		SO ₂	0.02	
		VOC	0.77	
Flare-2	Flare No. 2	CO	0.87	3.72
		NO _x	1.86	
		VOC	8.67	
Gen-1	Waukesha L7042GSI	CO	8.78	38.45

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY**
	Generator Engine	NO _x	5.79	25.63
		PM ₁₀	0.01	
		SO ₂	0.06	
		VOC	0.01	
			0.03	
Gen-2	Waukesha L7042GSI Generator Engine	CO	8.78	38.45
		NO _x	5.79	25.63
		PM ₁₀	0.01	
		SO ₂	0.06	
		VOC	0.01	
Gen-3	Waukesha L7042GSI Generator Engine	CO	8.78	38.45
		NO _x	5.79	25.63
		PM ₁₀	0.01	
		SO ₂	0.06	
		VOC	0.01	
HtrTrtr-1	Heater Treater	CO	0.04	0.16
		NO _x	0.05	
		PM ₁₀	0.01	
		SO ₂	0.01	
		VOC	0.01	
Regen-2	Regeneration Heater No. 2	CO	0.17	0.74
		NO _x	0.20	
		PM ₁₀	0.02	
		SO ₂	0.01	
		VOC	0.01	
Regen-3	Regeneration Heater No. 3	CO	0.31	1.36
		NO _x	0.37	
		PM ₁₀	0.03	
		SO ₂	0.01	
		VOC	0.02	
Source 40	Process Flare (Steady State Service)	CO	0.58	2.54
		H ₂ S	0.01	0.01

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY**
		NO _x	0.24	1.02
		SO ₂	0.01	0.01
		VOC 0.74	3.23	
Source 40	Process Flare (Start-up, Shutdown and Maintenance)	CO	252.88	25.47
		H ₂ S		0.01
		0.01		
		NO _x	86.01	8.19
		SO ₂	0.84	0.09
		VOC 154.29	11.70	
Source 80	Regeneration Heater	CO	0.62	2.72
		NO _x	0.74	3.23
		PM ₁₀ 0.06	0.25	
		SO ₂	0.01	0.02
		VOC 0.05	0.18	
Source 81	Hot Oil Heater	CO	0.78	3.39
		NO _x	0.92	4.03
		PM ₁₀	0.07	0.31
		SO ₂	0.01	0.03
		VOC	0.06	0.23
Source 82	Amine Heater	CO	0.33	1.45
		NO _x	0.40	1.72
		PM ₁₀ 0.03	0.13	
		SO ₂	0.01	0.01
		VOC 0.03	0.10	
Source 83	Amine Heater	CO	0.33	1.45
		NO _x	0.40	1.72
		PM ₁₀ 0.03	0.13	
		SO ₂	0.01	0.01
		VOC 0.03	0.10	
Source 84	Amine Heater	CO	0.33	1.45
		NO _x	0.40	1.72

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			lb/hr	TPY**
		PM ₁₀ 0.03	0.13	
		SO ₂	0.01	0.01
		VOC 0.03	0.10	
Source 85	Incinerator	CO	0.13	0.55
		H ₂ S 0.03	0.13	
		NO _x	0.62	2.71
		PM ₁₀ 0.01	0.04	
		SO ₂	8.70	38.12
		VOC 0.01	0.10	
	Incinerator - Not lit (5)	H ₂ S	4.00	17.00
		VOC	2.30	9.75
Fug-1	Plant Fugitives (4)	VOC	3.47	15.20
		H ₂ S 0.01	0.01	

- (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 (PM) 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 emission rate.
- (5) This facility is authorized in permit by rule registration number 48308 and it is included for reference.

Permit Number 19592
Page 7

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

* 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 _____