

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit No. 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)	<u>Emission Rates</u>	
			lb/hr	TPY
Source 80	Regeneration Heater	VOC	0.01	0.01
		NO _x	0.74	3.23
		SO ₂	0.01	0.02
		PM	0.06	0.25
		CO	0.62	2.72
Source 81	Hot Oil Heater	VOC	0.01	0.01
		NO _x	1.14	5.00
		SO ₂	0.01	0.03
		PM	0.06	0.21
		CO	0.34	1.50
Source 82	Amine Heater	VOC	0.01	0.01
		NO _x	0.40	1.75
		SO ₂	0.01	0.01
		PM	0.02	0.09
		CO	0.08	0.35
Source 83	Amine Heater	VOC	0.01	0.01
		NO _x	0.40	1.75
		SO ₂	0.01	0.01
		PM	0.02	0.09
		CO	0.08	0.35
Source 84	Amine Heater	VOC	0.01	0.01
		NO _x	0.40	1.75
		SO ₂	0.01	0.01
		PM	0.02	0.09
		CO	0.08	0.35

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates</u>	
			lb/hr	TPY* *
Source 85	Incinerator	VOC	0.01	0.10
		NO _x	0.62	2.71
		SO ₂	8.70	38.12
		H ₂ S	0.05	
		PM	0.01	0.04
		CO	0.13	0.55
Source 40	Emergency Flare* (5)	VOC	0.50	0.01
		NO _x	0.50	0.01
		SO ₂	4.50	0.10
		H ₂ S	2.00	8.70
Fug-1	Plant Fugitives (4)	VOC	5.45	23.86
Eng-A6	Waukesha L7402GSI Compressor A6 Engine	VOC	0.01	0.03
		NO _x	6.53	28.59
		SO ₂	0.01	0.03
		PM ₁₀	0.01	0.04
		CO	9.79	42.88
Eng-A7	Clark HLA-8 Compressor A7 Engine	VOC	0.26	1.12
		NO _x	8.82	38.63
		SO ₂	0.01	0.04
		PM ₁₀	0.09	0.39
		CO	22.05	96.58
Eng-A8	Caterpillar 3516LE Compressor A8 Engine	VOC	0.07	0.32
		NO _x	4.79	20.96
		SO ₂	0.01	0.02
		PM ₁₀	0.05	0.21
		CO	7.18	31.44

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			lb/hr	TPY* *
Eng-B9	Ingersoll-Rand 412KVS Compressor B9 Engine	VOC	0.22	0.95
		NO _x	9.13	38.60
		SO ₂	0.01	0.04
		PM ₁₀	0.01	0.01
		CO	21.03	92.10
Comp-B10	Waukesha L7042GSI Refrigeration B10 Engine	VOC	0.01	0.03
		NO _x	6.52	28.55
		SO ₂	0.01	0.03
		PM ₁₀	0.01	0.04
		CO	9.78	42.82
Comp-B11	Waukesha L7042GSI Refrigeration B11 Engine	VOC	0.01	0.03
		NO _x	6.52	28.55
		SO ₂	0.01	0.03
		PM ₁₀	0.01	0.04
		CO	9.78	42.82
Eng-B12	Caterpillar G3612LE Compressor B12 Engine	VOC	1.99	8.68
		NO _x	14.71	64.41
		SO ₂	0.02	0.07
		PM ₁₀	0.01	0.01
		CO	22.06	96.62
Eng-B13	Caterpillar G3612LE Compressor B13 Engine	VOC	1.99	8.68
		NO _x	14.71	64.41
		SO ₂	0.02	0.07
		PM ₁₀	0.01	0.01
		CO	22.06	96.62
Gen-1	Waukesha L7042GSI Generator Engine	VOC	0.01	0.03
		NO _x	5.79	25.63
		SO ₂	0.06	0.26
		PM ₁₀	0.01	0.01
		CO	8.78	38.45
Gen-2	Waukesha L7042GSI	VOC	0.01	0.03

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Emission Point No. (1)	Source Name (2)	Air Contaminant		Emission Rates	
		Name (3)		lb/hr	TPY* *
	Generator Engine		NO _x	5.79	25.63
		SO ₂	0.06	0.26	
		PM ₁₀	0.01	0.01	
		CO	8.78	38.45	
Gen-3	Waukesha L7042GSI Generator Engine		VOC	0.01	0.03
			NO _x	5.79	25.63
		SO ₂	0.06	0.26	
		PM ₁₀	0.01	0.01	
		CO	8.78	38.45	
Regen-2	Regeneration Heater No. 2		VOC	0.01	0.01
			NO _x	0.20	0.88
		SO ₂	0.01	0.01	
		PM ₁₀	0.02	0.07	
		CO	0.17	0.74	
Regen-3	Regeneration Heater No. 3		VOC	0.01	0.01
			NO _x	0.37	1.61
		SO ₂	0.01	0.01	
		PM ₁₀	0.03	0.13	
		CO	0.31	1.36	
Flare-2	Flare No. 2		VOC	2.00	8.67
			NO _x	0.43	1.86
		CO	0.87	3.72	
Fug-2	Plant Fugitives (4)		VOC	2.28	9.96
		H ₂ S	0.01	0.01	

(1) Emission point identification - either specific equipment designation or emission point number from plot plan.

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- (2) Specific point source name. For fugitive sources use area name or fugitive source name.
- (3) VOC - volatile organic compounds as defined in 30 Texas Administrative Code Section 101.1
 - NO_x - total oxides of nitrogen
 - SO₂ - sulfur dioxide
 - PM - particulate matter, including PM₁₀ (particulate matter less than or equal to 10 microns in diameter).
 - CO - carbon monoxide
 - H₂S - hydrogen sulfide
- (4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate limit.
- (5) When not in operation, the flare stack may be used to vent no more than the maximum hourly emission rate of H₂S specified.

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

Hrs/day __ Days/week __ Weeks/year __ or Hrs/year 8,760

** Except for H₂S, the emission allowable rates are based on and the facilities are limited by the following maximum operating schedule:

Dated_____