

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-A13 | Caterpillar G3608TALE Compressor A13 Engine | CO | 3.68 | 16.11 |
| | | NO _x | 9.81 | 42.97 |
| | | PM ₁₀ | 0.16 | 0.68 |
| | | SO ₂ | 0.01 | 0.04 |
| | | VOC | 1.29 | 5.64 |
| Eng-A14 | Caterpillar G3608TALE Compressor A14 Engine | CO | 3.68 | 16.11 |
| | | NO _x | 9.81 | 42.97 |
| | | PM ₁₀ | 0.16 | 0.68 |
| | | SO ₂ | 0.01 | 0.04 |
| | | VOC | 1.29 | 5.64 |
| Eng-B10 | Waukesha L7042GSI Refrigeration B10 Engine | CO | 9.78 | 42.82 |
| | | NO _x | 6.52 | 28.55 |
| | | PM ₁₀ | 0.23 | 0.98 |
| | | SO ₂ | 0.01 | 0.03 |
| | | VOC | 0.34 | 1.50 |

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AIR CONTAMINANTS DATA

| 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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AIR CONTAMINANTS DATA

| Emission Point No. (1) | Source Name (2) | Air Contaminant Name (3) | Emission Rates * | |
|---------------------------|--|-----------------------------|------------------|-------|
| | | | lb/hr | TPY** |
| Eng-B11 | Waukesha L7042GSI Refrigeration B11 Engine | CO | 9.78 | 42.82 |
| | | NO _x | 6.52 | 28.55 |
| | | PM ₁₀ | 0.23 | 0.98 |
| | | SO ₂ | 0.01 | 0.03 |
| | | VOC | 0.34 | 1.50 |
| Eng-B12 | Caterpillar G3612LETA-130 Compressor B12 Engine | CO | 22.06 | 96.62 |
| | | NO _x | 14.71 | 64.41 |
| | | PM ₁₀ | 0.23 | 1.00 |
| | | SO ₂ | 0.02 | 0.06 |
| | | VOC | 1.99 | 8.68 |
| Eng-B13 | Caterpillar G3612LETA-130 Compressor B13 Engine | CO | 22.06 | 96.62 |
| | | NO _x | 14.71 | 64.41 |
| | | PM ₁₀ | 0.23 | 1.00 |
| | | SO ₂ | 0.02 | 0.06 |
| | | VOC | 1.99 | 8.68 |
| Eng-B14 | Waukesha L7042GSI Refrigeration B14 Engine | CO | 9.78 | 42.82 |
| | | NO _x | 6.52 | 28.55 |
| | | PM ₁₀ | 0.23 | 0.98 |
| | | SO ₂ | 0.01 | 0.03 |
| | | VOC | 0.34 | 1.50 |
| Eng-B15 | Waukesha 12V-AT27GL Compressor B15 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-B16 | Waukesha 12V-AT27GL Compressor B16 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-B20 | Caterpillar G3608TALE | CO | 3.68 | 16.11 |

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AIR CONTAMINANTS DATA

| Emission Point No. (1) | Source Name (2) | Air Contaminant Name (3) | Emission Rates * | |
|---------------------------|--|-----------------------------|------------------|-------|
| | | | lb/hr | TPY** |
| | Compressor B20 Engine | NO _x | 9.81 | 42.97 |
| | | PM ₁₀ | 0.16 | 0.68 |
| | | SO ₂ | 0.01 | 0.04 |
| | | VOC | 1.29 | 5.64 |
| | | | | |
| Eng-B21 | Caterpillar G3608TALE Compressor B21 Engine | CO | 3.68 | 16.11 |
| | | NO _x | 9.81 | 42.97 |
| | | PM ₁₀ | 0.16 | 0.68 |
| | | SO ₂ | 0.01 | 0.04 |
| | | VOC | 1.29 | 5.64 |
| Flare-2 | Flare No. 2 | CO | 0.85 | 3.72 |
| | | NO _x | 0.42 | 1.83 |
| | | SO ₂ | 0.01 | 0.01 |
| | | VOC | 1.47 | 6.41 |
| | | | | |
| Gen-1 | Waukesha L7042GSI Generator Engine | CO | 8.78 | 38.45 |
| | | NO _x | 5.86 | 25.63 |
| | | PM ₁₀ | 0.21 | 0.91 |
| | | SO ₂ | 0.01 | 0.03 |
| | | VOC | 0.01 | 0.03 |
| Gen-2 | Waukesha L7042GSI Generator Engine | CO | 8.78 | 38.45 |
| | | NO _x | 5.86 | 25.63 |
| | | PM ₁₀ | 0.21 | 0.91 |
| | | SO ₂ | 0.01 | 0.03 |
| | | VOC | 0.01 | 0.03 |
| Gen-3 | Waukesha L7042GSI Generator Engine | CO | 8.78 | 38.45 |
| | | NO _x | 5.86 | 25.63 |
| | | PM ₁₀ | 0.21 | 0.91 |
| | | SO ₂ | 0.01 | 0.03 |
| | | VOC | 0.01 | 0.03 |
| HtrTrtr-1 | Heater Treater | CO | 0.04 | 0.16 |
| | | NO _x | 0.05 | 0.19 |

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AIR CONTAMINANTS DATA

| Emission Point No. (1) | Source Name (2) | Air Contaminant Name (3) | Emission Rates * | |
|---------------------------|---|-----------------------------|------------------|-------|
| | | | lb/hr | TPY** |
| | | PM ₁₀ 0.01 | 0.01 | |
| | | SO ₂ 0.01 | 0.01 | |
| | | VOC 0.01 | 0.01 | |
| Regen-2 | Regeneration Heater No. 2 | CO | 0.17 | 0.74 |
| | | NO _x 0.20 | 0.88 | |
| | | PM ₁₀ 0.02 | 0.07 | |
| | | SO ₂ 0.01 | 0.01 | |
| | | VOC 0.01 | 0.05 | |
| Regen-3 | Regeneration Heater No. 3 | CO | 0.31 | 1.36 |
| | | NO _x 0.37 | 1.61 | |
| | | PM ₁₀ 0.03 | 0.13 | |
| | | SO ₂ 0.01 | 0.01 | |
| | | VOC 0.02 | 0.09 | |
| Source 40 | Process Flare (Steady State Service) | CO | 0.72 | 3.13 |
| | | H ₂ S | 0.01 | 0.01 |
| | | NO _x | 0.25 | 1.09 |
| | | SO ₂ | 0.01 | 0.01 |
| | | VOC 0.74 | 3.24 | |
| 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 No. 1 | 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 |

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AIR CONTAMINANTS DATA

| Emission Point No. (1) | Source Name (2) | Air Contaminant Name (3) | Emission Rates * | |
|---------------------------|---------------------------|-----------------------------|------------------|-------|
| | | | lb/hr | TPY** |
| | | 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 |
| | | PM ₁₀ 0.03 | 0.13 | |
| | | SO ₂ | 0.01 | 0.01 |
| | | VOC 0.03 | 0.10 | |
| Source 85 | Incinerator | CO | 0.52 | 2.28 |
| | | H ₂ S 0.03 | 0.13 | |
| | | NO _x | 0.62 | 2.71 |
| | | PM ₁₀ 0.05 | 0.21 | |
| | | SO ₂ | 8.70 | 38.12 |
| | | VOC 0.03 | 0.11 | |
| | Incinerator - Not lit (5) | H ₂ S | 4.00 | 17.00 |
| | | VOC | 2.30 | 9.75 |
| Fug-1 | Plant Fugitives (4) | H ₂ S | 0.01 | 0.01 |
| | | VOC 3.63 | 15.88 | |

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

- (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.

* 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 December 2, 2004