

Emission Sources - Maximum Allowable Emission Rates

Permit Number 22088

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, sources, and related activities. 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 | |
|------------------------|-----------------------|--------------------------|----------------|---------|
| | | | lbs/hour | TPY (4) |
| BP | Brine Pit Losses | VOC | 0.55 | 2.42 |
| F-1 | Degassing Flare No. 1 | CO | 0.06 | 0.25 |
| | | NO _x | 0.03 | 0.13 |
| | | SO ₂ | 0.01 | 0.01 |
| | | VOC | 0.01 | 0.06 |
| F-2 | Degassing Flare No. 2 | CO | 0.06 | 0.25 |
| | | NO _x | 0.03 | 0.13 |
| | | SO ₂ | 0.01 | 0.01 |
| | | VOC | 0.01 | 0.06 |
| G-1 | Area 3 Generator | CO | 0.79 | 0.04 |
| | | NO _x | 3.66 | 0.18 |
| | | PM | 0.26 | 0.01 |
| | | PM ₁₀ | 0.26 | 0.01 |
| | | PM _{2.5} | 0.26 | 0.01 |
| | | SO ₂ | 0.24 | 0.01 |
| | | VOC | 0.29 | 0.01 |
| G-2 | Area 4 Generator | CO | 0.79 | 0.04 |
| | | NO _x | 3.66 | 0.18 |
| | | PM | 0.26 | 0.01 |
| | | PM ₁₀ | 0.26 | 0.01 |
| | | PM _{2.5} | 0.26 | 0.01 |
| | | SO ₂ | 0.24 | 0.01 |
| | | VOC | 0.29 | 0.01 |

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|------|------------------|-------------------|-------|------|
| G-3 | Area 8 Generator | CO | 0.79 | 0.04 |
| | | NO _x | 3.66 | 0.18 |
| | | PM | 0.26 | 0.01 |
| | | PM ₁₀ | 0.26 | 0.01 |
| | | PM _{2.5} | 0.26 | 0.01 |
| | | SO ₂ | 0.24 | 0.01 |
| | | VOC | 0.29 | 0.01 |
| FE-1 | Firewater Engine | CO | 4.13 | 0.21 |
| | | NO _x | 18.00 | 0.90 |
| | | PM | 0.53 | 0.03 |
| | | PM ₁₀ | 0.53 | 0.03 |
| | | PM _{2.5} | 0.53 | 0.03 |
| | | SO ₂ | 6.07 | 0.30 |
| | | VOC | 0.53 | 0.03 |
| H-1 | Water Heater | CO | 0.29 | 1.26 |
| | | NO _x | 0.34 | 1.50 |
| | | PM | 0.03 | 0.11 |
| | | PM ₁₀ | 0.03 | 0.11 |
| | | PM _{2.5} | 0.03 | 0.11 |
| | | SO ₂ | 0.01 | 0.01 |
| | | VOC | 0.02 | 0.08 |
| H-3 | Water Heater | CO | 0.29 | 1.26 |
| | | NO _x | 0.34 | 1.50 |
| | | PM | 0.03 | 0.11 |
| | | PM ₁₀ | 0.03 | 0.11 |
| | | PM _{2.5} | 0.03 | 0.11 |
| | | SO ₂ | 0.01 | 0.01 |
| | | VOC | 0.02 | 0.08 |
| H-4 | Water Heater | CO | 0.29 | 1.26 |
| | | NO _x | 0.34 | 1.50 |

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| | | | | |
|------|--------------------------|-------------------|------|------|
| | | PM | 0.03 | 0.11 |
| | | PM ₁₀ | 0.03 | 0.11 |
| | | PM _{2.5} | 0.03 | 0.11 |
| | | SO ₂ | 0.01 | 0.01 |
| | | VOC | 0.02 | 0.08 |
| H-5 | N Ethylene Regen Heater | CO | 0.28 | 1.23 |
| | | NO _x | 0.33 | 1.46 |
| | | PM | 0.03 | 0.11 |
| | | PM ₁₀ | 0.03 | 0.11 |
| | | PM _{2.5} | 0.03 | 0.11 |
| | | SO ₂ | 0.01 | 0.01 |
| | | VOC | 0.02 | 0.08 |
| H-7 | N Propylene Regen Heater | CO | 0.22 | 0.97 |
| | | NO _x | 0.26 | 1.16 |
| | | PM | 0.02 | 0.09 |
| | | PM ₁₀ | 0.02 | 0.09 |
| | | PM _{2.5} | 0.02 | 0.09 |
| | | SO ₂ | 0.01 | 0.01 |
| | | VOC | 0.02 | 0.06 |
| H-8 | S Propylene Regen Heater | CO | 0.12 | 0.54 |
| | | NO _x | 0.15 | 0.64 |
| | | PM | 0.01 | 0.05 |
| | | PM ₁₀ | 0.01 | 0.05 |
| | | PM _{2.5} | 0.01 | 0.05 |
| | | SO ₂ | 0.01 | 0.01 |
| | | VOC | 0.01 | 0.04 |
| H-10 | S Ethylene Regen Heater | CO | 0.33 | 1.44 |
| | | NO _x | 0.39 | 1.72 |
| | | PM | 0.03 | 0.13 |
| | | PM ₁₀ | 0.03 | 0.13 |

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| | | | | |
|-----------|--------------------------------|-------------------|-------|--------|
| | | PM _{2.5} | 0.03 | 0.13 |
| | | SO ₂ | 0.01 | 0.01 |
| | | VOC | 0.02 | 0.09 |
| H-11 | Ethylene Regen Heater | NO _x | 0.09 | 0.39 |
| | | CO | 0.77 | 3.37 |
| | | VOC | 0.05 | 0.22 |
| | | PM | 0.07 | 0.31 |
| | | PM ₁₀ | 0.07 | 0.31 |
| | | PM _{2.5} | 0.07 | 0.31 |
| | | SO ₂ | 0.01 | 0.04 |
| H-12 | Ethylene Regen Heater | NO _x | 0.09 | 0.20 |
| | | CO | 0.77 | 1.69 |
| | | VOC | 0.05 | 0.11 |
| | | PM | 0.07 | 0.15 |
| | | PM ₁₀ | 0.07 | 0.15 |
| | | PM _{2.5} | 0.07 | 0.15 |
| | | SO ₂ | 0.01 | 0.02 |
| H-13 | Propane Regen Gas Heater | CO | 2.11 | 9.24 |
| | | NO _x | 0.26 | 1.14 |
| | | PM | 0.04 | 0.16 |
| | | PM ₁₀ | 0.04 | 0.16 |
| | | PM _{2.5} | 0.04 | 0.16 |
| | | SO ₂ | 0.01 | 0.01 |
| | | VOC | 0.03 | 0.12 |
| WELL-GAS | Well Degassing | VOC | 0.71 | 3.11 |
| FUG-ETHYL | FUG-ETHYL (5) | VOC | 2.40 | 10.53 |
| DES-MSS | Desiccant Dehy MSS | VOC | 1.39 | 0.01 |
| SUL-MSS | Sulfur Treater MSS | VOC | 1.72 | 0.01 |
| FUG-LOAD | Loading emissions | VOC | 3.33 | 3.28 |
| FUG-TERM | Terminal Process Fugitives (5) | VOC | 99.98 | 437.89 |

Emission Sources - Maximum Allowable Emission Rates

- (1) Emission point identification - either specific equipment designation or emission point number from plot plan.
- (2) Specific point source name. For fugitive sources, use area name or fugitive source name.
- (3) VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
NO_x- total oxides of nitrogen
SO₂ - sulfur dioxide
PM - total particulate matter, suspended in the atmosphere, including PM₁₀ and PM_{2.5}, as represented
PM₁₀ - total particulate matter equal to or less than 10 microns in diameter, including PM_{2.5}, as represented
PM_{2.5} - particulate matter equal to or less than 2.5 microns in diameter
CO - carbon monoxide
- (4) Compliance with annual emission limits (tons per year) is based on a 12 month rolling period.
- (5) Emission rate is an estimate and is enforceable through compliance with the applicable special condition(s) and permit application representations.

Date: November 27, 2017