

Emission Sources - Maximum Allowable Emission Rates

Permit Number 19107

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 (6) | |
|---------------------------|------------------------------------|--------------------------|--------------------|---------|
| | | | lbs/hour | TPY (4) |
| AES-1 through AES-8 | Acid Scrubber Exhaust Stacks | VOC | 3.39 | 4.47 |
| | | OTHER (3) | 5.69 | 7.68 |
| | | PM | <0.01 | 0.01 |
| | | PM ₁₀ | <0.01 | 0.01 |
| | | PM _{2.5} | <0.01 | 0.01 |
| SES-1 through SES-8 | Solvent Exhaust Stacks | VOC | 9.70 | 13.04 |
| | | ES | 0.34 | 0.22 |
| BES-1 through BES-4 | Boilers 1 through 4 | VOC (5) | 0.23 | 0.35 |
| | | PM (5) | 0.31 | 0.48 |
| | | PM ₁₀ (5) | 0.31 | 0.48 |
| | | PM _{2.5} (5) | 0.31 | 0.48 |
| | | NO _x (5) | 5.04 | 7.73 |
| | | CO (5) | 3.46 | 5.30 |
| | | SO ₂ (5) | 0.03 | 0.04 |
| SGS-1, SGS-2, and FWP | Standby Engines and Firewater Pump | VOC (5) | 6.47 | 0.51 |
| | | PM (5) | 4.86 | 0.38 |
| | | PM ₁₀ (5) | 4.86 | 0.38 |
| | | PM _{2.5} (5) | 4.86 | 0.38 |
| | | NO _x (5) | 53.53 | 4.20 |
| | | CO (5) | 14.74 | 1.16 |
| | | SO ₂ (5) | 4.52 | 0.35 |
| T-17-27 | Sodium Hydroxide Storage Tank | NaOH | 0.10 | <0.01 |
| T-17-28 | Hydrochloric Acid | HCl | <0.01 | <0.01 |

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| | | | | |
|---------------------------------|---|--------------------------------|-------|--------|
| | Storage Tank | | | |
| T-21-4 | Sodium Hydroxide Storage Tank | NaOH | 0.15 | <0.01 |
| T-21-5 | Sulfuric Acid Storage Tank | H ₂ SO ₄ | <0.01 | <0.01 |
| T-21-7 | Acid Wastewater Collection Tank | Inorganic Acid | 0.07 | 0.32 |
| T-21-11 | Hydrofluoric Acid Wastewater Storage Tank 1 | Hydrogen Fluoride | 0.03 | <0.01 |
| T-21-12 | Hydrofluoric Acid Wastewater Storage Tank 2 | Hydrogen Fluoride | 0.02 | <0.01 |
| T-21-13 | Hydrofluoric Acid Wastewater Storage Tank 3 | Hydrogen Fluoride | 0.02 | <0.01 |
| T-27-2-1 | Diesel Storage Tank 1 | VOC | 0.10 | <0.01 |
| T-27-2-2 | Diesel Storage Tank 2 | VOC | 0.10 | <0.01 |
| T-27-2-3 | Diesel Storage Tank 3 | VOC | 0.10 | <0.01 |
| All Emission Points at the Site | All Sources at the Site | Individual HAP | -- | <10.00 |
| | | Total HAPs | -- | <25.00 |

- (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}
- PM₁₀ - total particulate matter equal to or less than 10 microns in diameter, including PM_{2.5}
- PM_{2.5} - particulate matter equal to or less than 2.5 microns in diameter
- CO - carbon monoxide
- NaOH - sodium hydroxide
- HCl - hydrogen chloride
- H₂SO₄ - sulfuric acid
- OTHER - acids, bases, reactive specialty gases and their reaction products
- ES - exempt solvent, those carbon compounds or mixtures of carbon compounds used as solvents which have been excluded from the definition of volatile organic compound.

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HAP - hazardous air pollutant as listed in § 112(b) of the Federal Clean Air Act or Title 40
Code of Federal Regulations Part 63, Subpart C

(4) Compliance with annual emission limits (tons per year) is based on a 12 month rolling period.

(5) Products of combustion.

(6) The allowable emission rates include planned maintenance, startup, and shutdown activities.

Date: February 13, 2015