

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Number 37887

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**
ACIDSCRB	Acid Scrubbers	VOC	0.01	0.01
		NH ₃	0.62	0.01
		HCl	0.01	0.01
		HF	0.18	0.04
		HNO ₃	0.01	0.01
		H ₃ PO ₄	0.01	0.01
		H ₂ O ₂	0.01	0.01
ANHFSCRB	Anhydrous HF Area Scrubbers	HF	0.21	0.09
BOILER	Boiler	CO	0.12	0.52
		NO _x	0.68	2.12
		PM ₁₀	0.04	0.16
		SO ₂	0.07	0.30
		VOC	0.03	0.12
DIESLTK	Diesel Storage Tank	VOC	0.01	0.01
GENERTR	Diesel Generator (5)	CO	2.69	1.16
		NO _x	12.47	5.36
		PM ₁₀	0.89	0.38
		SO ₂	0.83	0.36
		VOC	1.01	0.43
HFTOTE	HF Tote and Drum Loading	HF	0.01	0.01
AMMTOTE	NH ₄ OH Tote/Drum Loading	NH ₄ OH	0.01	0.01
LAB	Lab Vent	IPA	1.10	0.01

NH ₃ SCRUB	Ammonia Scrubber	NH ₄ OH	0.62	0.36
		HF	0.01	0.01
NH ₃ UNLD	NH ₃ Railcar Unloading	NH ₃	0.08	0.01
TOTE	Industrial HF Tote/Drum Loading	HF	0.01	0.01
FUGITIVE	Process Fugitives (4)	VOC	0.41	1.81
		H ₂ SO ₄	0.01	0.02
		HNO ₃	0.01	0.01
		H ₃ PO ₄	0.01	0.01
		H ₂ O ₂	0.01	0.01
		HF	0.06	0.26
		NH ₃	0.11	0.48
		NH ₄ OH	0.01	0.03
		NH ₄ F	0.01	0.01
ETCHTOTE	Ethchant Tote/Drum Loading	VOC	0.01	0.01
		HF	0.01	0.01
		HNO ₃	0.01	0.01
		H ₂ O ₂	0.01	0.01
		H ₃ PO ₄	0.01	0.01
AFBOETOTE	NH ₄ F/BOE Tote/Drum Loading	NH ₃	0.01	0.01
		HF	0.01	0.01

(1) Emission point identification - either specific equipment designation or emission point number

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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
- NH₃ - ammonia
- HCl - hydrogen chloride
- HF - hydrogen fluoride
- HNO₃ - nitric acid
- H₃PO₄ - phosphoric acid
- H₂O₂ - hydrogen peroxide
- CO - carbon monoxide
- 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 PM greater than 10 microns is emitted.
- SO₂ - sulfur dioxide
- NH₄OH - ammonium hydroxide
- IPA - isopropyl alcohol
- NH₄F - ammonium fluoride
- H₂SO₄ - sulfuric acid
- (4) Emission Rate is an estimate and compliance is demonstrated by meeting the requirements of the applicable special conditions and permit application representations.
- (5) The diesel generator is limited to 860 operating hours per year.

* 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 _____