

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit No. 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 Scrubber	AA	0.01	0.01
		HCl	0.88	0.09
		HF	0.11	0.03
		HNO ₃	0.02	0.01
		H ₃ PO ₄	0.01	0.01
ANHFSCRB	Anhydrous HF ₃ Area Scrubber	HF	0.21	0.09
BOILER	Boiler	CO	0.11	0.46
		NO _x	0.69	2.12
		PM ₁₀	0.06	0.26
		SO ₂	0.07	0.31
		VOC	0.02	0.07
DIESLTK	Diesel Storage Tank	VOC	0.01	<0.01
GENERTR	Diesel Generator (5)	CO	2.20	0.96
		NO _x	10.14	4.44
		PM ₁₀	0.71	0.32
		SO ₂	0.67	0.30
		VOC	0.83	0.37
HFHCLTOTE	Tote and Drum Loading	HCl	0.02	0.01
		HF	0.01	0.01
IPAAMMTOTE	IPA and NH ₄ OH	IPA	0.14	0.01
	Tote and Drum Loading	NH ₄ OH	0.03	0.01
IPAVENT	IPA Vent	IPA	4.81	8.75

LABVENT	Lab Vent	IPA	6.52	1.19
NH ₃ SCRUB	Ammonia Scrubber	H ₂ O ₂	0.01	0.01
		NH ₄ OH	0.54	0.59
NH ₃ UNLD	NH ₃ Railcar Unloading	NH ₃	0.08	0.01
TK300	Storage Tank T-300	IPA	6.68	1.02
TK301	Storage Tank T-301	IPA	0.35	0.09
TOTE	Tote and Drum Loading	AA	0.17	0.06
		Acetone	5.22	1.1
		CH ₃ OH	1.77	0.38
		H ₂ O ₂	0.02	0.03
		H ₃ PO ₄	0.25	0.09
		HNO ₃	0.17	0.06
		KOH	1.13	0.29
		NaOH	1.13	0.29
		NH ₄ F	1.13	0.29
		NBA	0.63	0.20
		NMP	1.13	0.29
		TMAH	1.04	0.27
FUGITIVE	Process Fugitives (4)	Fuel Oil	0.26	1.13
		H ₂ SO ₄	0.02	0.09
		HCl	0.03	0.11
		AHF	0.04	0.19
		HF	0.02	0.07
		IPA	0.28	1.23
		NH ₃	0.06	0.24
		NH ₄ OH	0.01	0.04

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

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(2) Specific point source names. For fugitive sources use area name or fugitive source name.

- (3) AA - acetic acid
AHF - anhydrous hydrogen fluoride
CH₃OH - methanol
CO - carbon monoxide
HCl - hydrogen chloride
HF - hydrogen fluoride
HNO₃ - nitric acid
H₂O₂ - hydrogen peroxide
H₃PO₄ - phosphoric acid
IPA - isopropyl alcohol
KOH - potassium hydroxide
NaOH - sodium hydroxide
NBA - n-butyl acetate
NH₃ - ammonia
NH₄F - ammonium fluouride (salt)
NH₄OH - ammonium hydroxide
NMP - n-methylpyrrolidone
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
TMAH - tetramethylammonium hydroxide
VOC - volatile organic compounds as defined in 30 Texas Administrative Code Section

101.1

H₂SO₄ - sulfuric acid

(4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.

(5) The diesel generator is limited to 876 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 _____