

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
BOILER	Boiler	VOC	0.02	0.07
		NO _x 0.69	2.12	
		CO	0.11	0.46
		SO ₂	0.07	0.31
		PM ₁₀ 0.06	0.26	
ACIDSCRUB	Acid Scrubber	HCl	0.61	0.14
		HF	0.11	0.05
ANHFSCRUB	Anhydrous HF ₃ Area Scrubber	HF ₃	0.21	0.03
NH ₃ SCRUB	Ammonia Scrubber	NH ₃	0.54	0.23
IPAVENT	IPA Vent	IPA	1.19	5.21
LABVENT	Lab Vent	IPA	6.52	1.19
NH ₃ UNLD	NH ₃ Railcar Unloading	NH ₃	0.08	0.01
TOTE	Tote and Drum Loading (Probe Removal)	HCl	<0.01	<0.01
		HF	0.01	0.01
		IPA	0.01	0.01
		NH ₄ OH	<0.01	<0.01
DIESLTK	Diesel Storage Tank	VOC	0.01	<0.01
FUGITIVE	Process Fugitives (4)	Fuel Oil	0.26	1.13
		IPA 0.19	0.84	

HCl	<0.01	0.02
HF	0.02	0.05
NH ₃	0.01	0.05

Permit No 37887
Page 2

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

AIR

CONTAMINANTS DATA

<u>Emission</u> *	Source	Air Contaminant	<u>Emission Rates</u>	
<u>Point No. (1)</u>	<u>Name (2)</u>	<u>Name (3)</u>	<u>lb/hr</u>	<u>TPY</u>
GENERTR	Diesel Generator (5)	VOC	0.83	0.37
		NO _x	10.14	4.44
		CO	2.20	0.96
		SO ₂	0.67	0.30
		PM ₁₀	0.71	0.32

- (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 General Rule 101.1
 - NO_x - total oxides of nitrogen
 - CO - carbon monoxide
 - SO₂ - sulfur dioxide
 - 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.
 - HCl - hydrogen chloride
 - HF - hydrogen fluoride
 - NH₃ - ammonia
 - IPA - isopropyl alcohol
 - NH₄OH - ammonium hydroxide
- (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:

_____ Hrs/day _____ Days/week _____ Weeks/year or _____
8,760 Hrs/year

Dated _____