

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit No. 20577

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
B-1	Plant Boiler 8.4 MMBTU/hr	VOC	0.03	0.14
		NO _x	0.84	3.68
		CO	0.18	0.77
		SO ₂	<0.01	0.02
		PM	0.10	0.44
B-2	Nitric Acid Boiler 2.7 MMBTU/hr	VOC	0.01	0.05
		NO _x	0.27	1.18
		CO	0.06	0.25
		SO ₂	<0.01	0.01
		PM	0.03	0.14
BL-100	Building Vent	VOC	0.22	0.09
		PM ₁₀	0.44	0.19
BL-101	Building Vent	VOC	0.80	0.01
		IOC	0.70	0.01
FUG	Fugitives (4)	VOC	0.10	0.42
		H ₂ O ₂	0.01	0.06
		HNO ₃	0.08	0.76
		NH ₃	0.11	0.48
FUG-PIT	Neutralization Pit	VOC	0.36	0.03
		acetone	0.36	<0.01
		IOC	0.66	0.21
FUG-TRK1	Nitric Acid Truck	HNO ₃	0.02	<0.01

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<u>Point No. (1)</u>	<u>Name (2)</u>	<u>Name (3)</u>	<u>lb/hr</u>	<u>TPY</u>
	Loading			
FUG-TRK2	Ammonium Hydroxide Truck Loading	NH ₃	1.32	0.86
PV-100	Ammonia Pressure Storage Tanks 105A and 105B Relief Vents	NH ₃	0.05	0.79
SB-901	Harrington Scrubber	VOC	2.48	5.43
		IOC	0.23	2.59
SB-902	Nitric Acid Scrubber	NO ₂	0.98	0.05
SB-903	Facility Scrubber	VOC	48.46	5.00
		acetone	49.39	1.81
		IOC	4.47	3.00
SB-904	Water Bath	HNO ₃	0.05	<0.01
TK-106	Blend Tank 106 Vent	VOC	0.18	0.03
TK-107	Blend Tank 107 Vent	VOC	0.18	0.03
TK-110A	Isopropyl Alcohol Blend Tank	VOC	0.92	0.08
TK-110D	Isopropyl Alcohol Blend Tank	VOC	0.92	0.08
TK-122	Blend Tank 122 Vent	VOC	0.18	0.06
VENT-1	Performance Products Area Vent	VOC	8.68	2.25

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<u>Point No. (1)</u>	<u>Name (2)</u>	<u>Name (3)</u>	<u>lb/hr</u>	<u>TPY</u>

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- (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
 - IOC - inorganic compounds (unspeciated)
 - NO_x - total oxides of nitrogen
 - NO₂ - nitrogen dioxide
 - CO - carbon monoxide
 - SO₂ - sulfur dioxide
 - PM - particulate matter
 - PM₁₀ - particulate matter less than 10 microns in diameter
 - H₂O₂ - hydrogen peroxide
 - HNO₃ - nitric acid
 - NH₃ - ammonia
- (4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.

* 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 _____