

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit No. 21995

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)	<u>Emission Rates *</u>	
			lb/hr	TPY
VSP-1	S-1422 Flash Dryer Bag Filter	PM ₁₀	1.53	6.05
		NO _x	1.68	6.94
		CO	0.87	3.59
		VOC	0.14	0.59
		SO ₂	0.02	0.06
		NH ₃	0.03	0.11
VSP-2	S-1522 Flash Dryer Bag Filter	PM ₁₀	1.53	6.05
		NO _x	1.68	6.94
		CO	0.87	3.59
		VOC	0.14	0.59
		SO ₂	0.02	0.06
		NH ₃	0.03	0.11
VSP-3	Vacuum Vent	NH ₃	0.49	2.04
VSP-4	C-1822 Ammonia Stripper Vent Scrubber	NH ₃	0.02	0.07
VSP-5	Rare Earth Oxides Bag Filter	PM ₁₀	0.03	0.03
VSP-6	Rare Earth Chlorides Scrubber	Cl ₂	0.50	0.46
		HCl	0.04	0.04
VSP-7	HCl Tank Scrubber **	HCl	0.05	0.03
VSP-8	NH ₃ Tank Vent Scrubber **	NH ₃	<0.01	<0.01
VSP-9	Steam Boiler **	PM ₁₀	0.62	1.76

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *		
			lb/hr	TPY	
			NO _x	7.57	21.64
			CO	4.31	12.32
			VOC	0.71	2.04
			SO ₂	0.07	0.21
VSP-10	Tank T-1423		NH ₃	<0.01	<0.01
VSP-11	Tank T-1523		NH ₃	<0.01	<0.01
VSP-12	F-1422 Calciner		PM ₁₀	0.07	0.27
			NO _x	0.92	3.68
			CO	0.46	1.90
			VOC	0.08	0.32
			SO ₂	0.01	0.03
VSP-13	F-1522 Calciner		PM ₁₀	0.07	0.27
			NO _x	0.92	3.68
			CO	0.46	1.90
			VOC	0.08	0.32
			SO ₂	0.01	0.03
VSP-14	H2SO4 Tank T-1151 **		H ₂ SO ₄	<0.01	<0.01
VSP-15	Tank 1965 Bag Filter		PM ₁₀	<0.01	<0.01

- (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) PM₁₀ - particulate matter less than 10 microns
 VOC - volatile organic compounds as defined in General Rule 101.1
 NO_x - total oxides of nitrogen
 SO₂ - sulfur dioxide
 CO - carbon monoxide
 NH₃ - ammonia
 HCl - hydrochloric acid
 NH₃ - anhydrous ammonia
 H₂SO₄ - sulfuric acid
 Cl₂ - chlorine

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u>	
			lb/hr	TPY

- * Emission rates are based on and the facilities are limited by the following maximum operating schedule:

Hrs/day___Days/week___Weeks/year___or Hrs/year 8,250

- ** Emission rates for the HCl Tank Scrubber (EPN VSP-7), NH₃ Tank Vent Scrubber (VSP-8), Steam Boiler (VSP-9), and H₂SO₄ Tank T-1151 (VSP-14) are based on and the facilities are limited by a maximum operating schedule of 8,760 hrs/year.

Dated _____