

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

9626

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)	Name (3)	Air Contaminant		Emission Rates *	
			lb/hr	TPY		
3A	Feed Hopper	Bagfilter		PM	<0.1	0.2
5A	Calciner			VOC	<0.1	0.2
				NO _x	1.9	8.1
				SO ₂		<0.1
				PM	<0.1	0.3
				CO	0.5	2.4
8	Flash Dryer			VOC		<0.1
	Bagfilter			NO _x	0.8	3.4
				SO ₂		<0.1
				PM	1.0	4.4
				CO	0.2	0.8
9	Calciner			VOC	<0.1	0.1
				NO _x	0.4	1.7
				SO ₂		<0.1
				PM		<0.1
				CO	0.1	0.4
9A	Product	Bagfilter		PM	1.6	7.2
10	Flash Dryer			VOC		<0.1
	Bagfilter			NO _x	0.8	3.4
				SO ₂		<0.1
				PM	1.0	4.4
				CO	0.2	0.8

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11	Reslurry Bagfilter	PM	0.3	1.2
11A	Calciner Vent Scrubber	NH ₃	2.4	10.5

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	lb/hr	Emission Rates * TPY
12	Calciner	VOC		<0.1
		NO _x	0.4	1.7
		SO ₂		<0.1
		PM		<0.1
		CO	0.1	0.4
14	HCl Scrubber	HCl		<0.1
15	Ammonia Scrubber	NH ₃	2.0	8.6
16	Storage Silo Bagfilter	PM	0.1	0.5
17	Sulfuric Acid Tank	H ₂ SO ₄	<0.1	0.2
19	Dosing Hopper Bagfilter	PM	0.3	1.3
20	Silo Bagfilter	PM	0.3	1.1
21	Spray Dryer Scrubber	VOC	0.3	1.5
		NO _x	15.8	69.3
		SO ₂	<0.1	0.3
		PM	12.5	55.0
		CO	3.8	16.7
21.1-21.3	Crude Product Bagfilter	PM	0.1	0.6
23	Separator Silo Bagfilter	PM	0.2	0.8

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24	Crude Product Bagfilter	PM		<0.1
26	Dilute HCl Tank	HCl		<0.1
27	Steam Boiler	VOC	0.2	0.8
		NO _x	7.3	32.2
		SO ₂	<0.1	0.2
		PM	0.3	1.3
		CO	2.1	9.4

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	lb/hr	Emission Rates * TPY	
RDL-1	Spray Dryer No. 1	PM ₁₀	0.46	0.93	
		SiO ₂ (4)	<0.01	<0.01	
		Na ₂ SO ₄ (4)	0.06	0.12	
		NO _x	0.77	1.54	
		CO	0.02	0.04	
		VOC	<0.01	0.01	
		SO ₂	<0.01	<0.01	
RDL-2	Spray Dryer No. 2	PM ₁₀ (4)	0.46	0.93	
		SiO ₂ (4)	<0.01	<0.01	
		Na ₂ SO ₄ (4)	0.06	0.12	
		NO _x	0.77	1.54	
		CO	0.02	0.04	
		VOC	<0.01	0.01	
		SO ₂	<0.01	<0.01	
RDL-3	Ammonia Scrubber	PM ₁₀ (4)	0.46	0.70	
		SiO ₂ (4)	<0.01	<0.01	
		Na ₂ SO ₄ (4)	0.02	0.03	
		NO _x	3.96	2.97	
		NH ₃	0.04	0.03	
RDL-4	Calciner No. 2	PM ₁₀	<0.01	<0.01	
		NO _x	0.08	0.12	

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		CO	0.02	0.02
		VOC	<0.01	<0.01
		SO ₂	<0.01	<0.01
RDL-5	Steam Boiler	PM ₁₀	<0.01	0.01
		NO _x	0.05	0.20
		CO	<0.01	0.04
		VOC	<0.01	0.01
		SO ₂	<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)
 - PM - particulate matter
 - 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
 - H₂SO₄ - sulfuric acid
 - SiO₂ - silicon oxide (crystalline quartz)
 - Na₂SO₄ - sodium sulfate
- (4) Overall PM₁₀ emission rates include SiO₂ and Na₂SO₄ emission rates.

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

Hrs/day 24 Days/week 7 Weeks/year 52 or Hrs/year _____

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Revised_____