

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit No. 2537

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		Air Contaminant		<u>Emission Rates *</u>	
	Name (2)	Name (3)	lb/hr	TPY		
BH-4	Baghouse No. 4**		ZnO		0.344	0.716
			Zn		0.277	0.576
			PbO		0.040	0.083
			Pb		0.037	0.077
			CuO		0.008	0.016
			Cu		0.006	0.013
			PM ₁₀		0.234	0.478
BH-5	Baghouse No. 5		ZnO		0.345	1.512
			Zn		0.277	1.215
			PbO		0.010	0.045
			Pb		0.009	0.041
			PM ₁₀		0.152	0.667
BH-6	Baghouse No. 6		ZnO		0.001	0.004
			Zn		0.001	0.003
			PbO		<0.001	<0.001
			Pb		<0.001	<0.001
			PM ₁₀		<0.001	<0.001
BH-7	Baghouse No. 7		ZnO		0.598	2.621
			Zn		0.481	2.105
			PbO		0.001	0.004
			Pb		0.001	0.004
			PM ₁₀		0.001	0.004
BH-8	Baghouse No. 8		ZnO		0.002	0.008
			Zn		0.001	0.006
			PbO		<0.001	<0.001
			Pb		<0.001	<0.001
			PM ₁₀		<0.001	0.004

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BH-9	Baghouse No. 9	ZnO	0.125	0.546
		Zn	0.100	0.439
		PbO	<0.001	<0.001
		Pb	<0.001	<0.001
		PM ₁₀	<0.001	0.004

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY
BH-15	Baghouse No. 15	ZnO	0.192	0.840
		Zn	0.154	0.675
		PbO	0.006	0.025
		Pb	0.005	0.023
		PM ₁₀	0.085	0.371
BH-16	Baghouse No. 16	ZnO	0.075	0.327
		Zn	0.060	0.263
		PbO	0.001	0.003
		Pb	0.001	0.003
		PM ₁₀	0.033	0.146
		NH ₄ Cl ₂	0.006	0.028
	Raw Material Handling (4)	TSP	0.020	0.060
		PM ₁₀	0.010	0.030
	Retort Furnaces (4)(5)	CO	0.600	2.600
		NO _x	2.380	10.410
		SO ₂	0.010	0.450
		VOC	0.010	0.430
		PM ₁₀	0.110	0.460
	Finished Product Handling (4)	ZnO	0.079	0.341
		Zn	0.063	0.274

- (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 in diameter

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ZnO	- zinc oxide
Zn	- zinc
CuO	- copper oxide
Cu	- copper
PbO	- lead oxide
Pb	- lead
VOC	- volatile organic compounds as defined in General Rule 101.1
NO _x	- total oxides of nitrogen
SO ₂	- sulfur dioxide
CO	- carbon monoxide
NH ₄ Cl ₂	- ammonium chloride

(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 hourly throughputs and operating schedule:

Rotary Kiln	2.50 tons per hour
Melting Pots (each)	1.25 tons per hour
Retort Furnaces (each)	0.15 tons per hour
Dust Milling Operations	1.67 tons per hour

Annual emission rates are based on operating 8,760 hours per year.

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

Hrs/day 16 Days/week 5 Weeks/year 52

(5) VOCs, NOx, SO₂, and CO are products from the combustion of natural gas.

Dated_____

