

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 Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY
BH-23	Baghouse No. 23	ZnO	0.055	0.240
		Zn	0.044	0.192
		PbO	<0.001	<0.001
		Pb	<0.001	<0.001
		PM ₁₀	0.055	0.240
BH-24	Baghouse No. 24	ZnO	0.059	0.258
		Zn	0.047	0.207
		PbO	0.002	0.008
		Pb	0.002	0.007
		PM ₁₀	0.026	0.114
BH-25	Baghouse No. 25	ZnO	0.074	0.322
		Zn	0.059	0.258
		PbO	0.0022	0.009
		Pb	0.002	0.009
		PM ₁₀	0.033	0.142
BH-26	Baghouse No. 26	ZnO	0.004	0.015
		Zn	0.003	0.012
		PbO	<0.001	<0.001
		Pb	<0.001	<0.001
		PM ₁₀	0.002	0.006

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY
	Zinc Building 1 Fugitives	CO	0.600	2.600
	(4)(5)	NO _x	2.380	10.410
		SO ₂	0.010	0.050
		VOC	0.100	0.430
		ZnO	0.022	0.097
		Zn	0.020	0.090
		PbO	<0.001	<0.001
		PM ₁₀	0.111	0.463
	Zinc Building 2 Fugitives	CO	0.410	1.790
	(4)(5)	NO _x	1.640	7.130
		SO ₂	0.010	0.040
		VOC	0.07	0.300
		ZnO	0.022	0.095
		Zn	0.020	0.090
		PbO	<0.001	<0.001
		PM ₁₀	0.060	0.260
	Electric Thermal Furnace			
	Building Fugitives	CO	0.081	0.353
	(4)	No _x	0.230	1.010
		SO ₂	0.002	0.007
		VOC	0.014	0.059
		Zn	0.005	0.020
		PM ₁₀	<0.001	<0.001
	Finished Product Handling	ZnO		0.153
0.534	Building Fugitives	Zn	0.137	0.462
	(4) (6)	PbO	<0.001	<0.001
		Pb	<0.001	<0.001
		PM ₁₀	0.110	0.0242

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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) ZnO - zinc oxide, including zinc
Zn - zinc
PbO - lead oxide, including lead
Pb - lead
PM₁₀ - particulate matter less than 10 microns in diameter excluding zinc and lead, but including the following elements and/or compounds of these elements: iron, aluminum, cadmium, chromium, barium, arsenic, silver, mercury, selenium, and tin. Refer to Table 5A, dated January 19, 1996 in the permit file for emission limits for these elements and/or compounds.
VOC - volatile organic compounds as defined in General Rule 101.1
NO_x - total oxides of nitrogen
SO₂ - sulfur dioxide
CO - carbon monoxide
- (4) Fugitive emissions are an estimate only.
- (5) VOC, NO_x, SO₂, and CO are products from the combustion of natural gas.
- (6) Building fugitives include zinc pan dumping and emissions from Baghouse Nos. 20 and 21.

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

Melting Pots (each)	1.25 tons per hour
Retort Furnaces (each)	0.18 tons per hour
Dust Milling No. 1	4.25 tons per hour
Dust Milling No. 2	6.00 tons per hour

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

Dated _____