### 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)	Sourc Name (2)	e Name (3)	Air lb/hr	Contaminant TPY	Emission R	ates *
BH-4	Baghous	e No. 4**		ZnO ZnPbO PbCuO CuCdO CdCrO CrBaO BaASO AsAgO AgHgO HgO SeO SePM10	0.344 0.277 0.040 0.037 0.008 0.006 <0.00048 <0.00048 <0.00373 <0.02437 <0.02183 <0.00248 <0.00048 <0.00048 <0.00048 <0.00048 <0.00048 <0.00048 <0.00048 <0.00048 <0.00048 <0.00048 <0.00048 <0.00048 <0.00048 <0.00048 <0.00048 <0.00048 <0.00048 <0.00048 <0.00048 <0.00048 <0.00048 <0.00048 <0.00048 <0.00048 <0.00048 <0.00048 <0.00048	0.716 0.576 0.083 0.077 0.016 0.013 <0.00152 <0.001521 <0.01163 <0.07605 <0.06811 <0.00152 <0.00133 <0.00152 <0.00133 <0.00760 <0.00704 <0.03042 <0.02529 0.485
BH-5	Baghous	e No. 5		ZnO Zn PbO Pb CdO Cd CrO Cr PM <sub>10</sub>	0.435 0.345 0.013 0.012 <0.00048 <0.00043 <0.00488 <0.00373 0.192	1.901 1.527 0.056 0.052 <0.00214 <0.00187 <0.02136 <0.01633 0.839

# EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emissi</u> lb/hr	on Rates * TPY		
BH-6	Bagho	use No. 6		ZnO Zn PbO Pb CdO Cd CrO Cr BaO Ba AsO As AgO Ag PM <sub>10</sub>	0.001 0.001 <0.001 <0.0001 <0.00001 <0.00001 <0.00001 <0.00007 <0.00001 <0.00001 <0.00001 <0.00001 <0.00001 <0.00001	0.004 0.003 <0.001 <0.0001 <0.00001 <0.00005 <0.00031 <0.00028 <0.00001 <0.00001 <0.00001 <0.00001 <0.00001
BH-8	Bagho	use No. 8		ZnO Zn PbO Pb CdO Cd CrO Cr BaO Ba AsO As AgO Ag PM <sub>10</sub>	0.002 0.0014 <0.001 <0.0001 <0.00001 <0.00002 <0.00002 <0.00014 <0.00013 <0.00001 <0.00001 <0.00001 <0.00001 <0.00001	0.008 0.006 <0.001 <0.0001 <0.00001 <0.00002 <0.00062 <0.00055 <0.00001 <0.00001 <0.00001 0.00001

## EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Air Contaminant Name (2) Name (3)	Emission Rates * lb/hr TPY		
BH-15	Baghouse No. 15	ZnO Zn PbO Pb CdO Cd CrO Cr PM <sub>10</sub>	0.327 0.262 0.0096 0.0090 <0.00272 <0.00238 <0.02721 <0.02081 0.144	1.426 1.145 0.041 0.031 <0.01188 <0.01040 <0.11885 <0.09088 0.625
	Raw Material Handling (4)	TSP PM <sub>10</sub>	0.020 0.010	0.060 0.030
	Retort Furnaces (4)(5)	$\begin{array}{c} CO \\ NO_{x} \\ SO_{2} \\ VOC \\ PM_{10} \end{array}$	0.600 2.380 0.010 0.010 0.110	2.600 10.410 0.450 0.430 0.460
	Finished Product Handling Building (4) (6)	ZnOZnPbOPbCuOCuFeAICdOCrOCrBaOBaASOAS	0.163 0.130 <0.001 <0.0001 <0.00002 <0.00001 <0.42371 <0.42371 <0.00084 <0.00074 <0.00648 <0.04237 <0.03795 <0.00084 <0.00084	0.384 0.310 <0.001 <0.0001 <0.00001 <0.00001 <0.00370 <0.00324 <0.03702 <0.02831 <0.18508 <0.16575 <0.00370 <0.00305

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SeO	<0.01695	< 0.07403
Se	< 0.01409	<0.06156
$PM_{10}$	0.110	0.0242

### EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

- (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<sub>10</sub> particulate matter less than 10 microns in diameter but not

includ ing the follow ing elem ents and/o r comp ound s:

ZnO - zinc oxide, including zinc

Zn - zinc

CuO - copper oxide, including copper

Cu - copper

PbO - lead oxide, including lead

Pb - lead Fe - iron

Al - aluminum

CdO - cadmium oxide, including cadmium

Cd - cadmium

CrO - chromium oxide, including chromium

Cr - chromium

BaO - barium oxide, including barium

Ba - barium

AsO - arsenic oxide, including arsenic

As - arsenic

AgO - silver oxide, including silver

Ag - silver

HgO - mercury oxide, including mercury

Hg - mercury

SeO - selenium oxide, including selenium

Se - selenium

VOC - volatile organic compounds as defined in General Rule 101.1

NO<sub>x</sub> - total oxides of nitrogen

SO<sub>2</sub> - sulfur dioxide CO - carbon monoxide

TSP - total suspended particulate

- (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

Melting Pots (each)

Retort Furnaces (each)

Dust Milling No. 1

Dust Milling No. 2

2.50 tons per hour
1.25 tons per hour
4.25 tons per hour
6.00 tons per hour

Annual emission rates are based on operating <u>8,760</u> 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, NO<sub>x</sub>, SO<sub>2</sub>, and CO are products from the combustion of natural gas.
- (6) Building fugitives include zinc pan dumping and emissions from Baghouses Nos. 20 and 21.

