### EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

### Permit No. 9627

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.

Emission	Source	Air Contaminant	<u>Emission</u>	Rates *
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
PF-1	Revolatilizing	$PM_{10}$	0.307	1.237
	Furnace-1 Baghouse	VOC	0.007	0.031
		$NO_x$	0.185	0.810
		$SO_2$	0.001	0.005
		CO	0.039	0.170
		Sb**	0.017	0.067
PF-2	Revolatilizing	$PM_{10}$	0.352	1.420
	Furnace-1 Baghouse	VOC	0.007	0.031
		$NO_x$	0.185	0.810
		$SO_2$	0.001	0.005
		CO	0.039	0.170
		Sb**	0.019	0.077
PF-3	Cupola Furnace Baghou 1.237	se	$PM_{10}$	0.307
		VOC	0.004	0.018
		$NO_x$	0.109	0.477
		$SO_2$	<0.001	0.003
		CO	0.023	0.100
		Sb**	0.017	0.067
PF-4	Cupola Furnace Baghou	se PM <sub>10</sub>	0.278	1.122
		VOC	0.004	0.018
		$NO_x$	0.109	0.477
		$SO_2$	<0.001	0.003
		CO	0.023	0.100
		Sb**	0.015	0.061
PF-5	Revolatilizing	$PM_{10}$	0.651	2.623
	Furnace-3 Cartridge 0.062	Filter	VOC	0.014

# EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES AIR CONTAMINANTS DATA

Emission	Source A	ir Contaminant	<u>Emission</u>	Rates *
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
		NO <sub>x</sub> SO <sub>2</sub> CO Sb**	0.370 0.002 0.078 0.035	1.619 0.010 0.340 0.142
PF-6	MS4 Classifier Baghous		0.246 0.013	0.493 0.054
PF-7	MS5 Classifier Baghous	PM <sub>10</sub> Sb**	0.486 0.026	0.972 0.106
HF-1	North Fullers Blast Furnace Baghouse	$PM_{10}$ VOC $NO_x$ $SO_2$ CO Sb**	0.774 0.004 0.083 <0.001 0.017 0.042	3.121 0.018 0.333 0.002 0.070 0.169
HF-2	South Fullers Blast Furnace Baghouse	$PM_{10}$ VOC $NO_x$ $SO_2$ CO Sb**	1.149 0.004 0.083 <0.001 0.017 0.062	4.632 0.018 0.333 0.002 0.070 0.250
HF-3	Cupola Hygiene Baghous	e PM <sub>10</sub> Sb**	0.740 0.040	2.990 0.161
HF-4	Auger Packer Baghouse	Sb**	0.318	1.283
HF-10	Crude Oxide Silo Hygiene Baghouse	Sb**	0.037	0.148
HF-11	Nauta 1 (Stranding) Baghouse	Sb**	0.030	0.110
HF-12	Nauta 2 (Stranding) Baghouse	Sb**	0.030	0.110

Permit No. 9627 Page 3

## EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Emission	Source	Air Contaminant	<u>Emission</u>	Rates *
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY_
CVS-1	Old Central Vacuum System Baghouse	Sb**	0.092	0.370

# EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES AIR CONTAMINANTS DATA

Emission	Source	Air Contaminant	<u>Emission</u>	Rates *
Point No. (1)	Name (2)	Name (3)	 1b/hr	TPY
CVS-2	New Central Vacuum System Baghouse	Sb**	0.092	0.370
SODANTFURN	Sodium Antimonate Furnace	PM VOC NO <sub>x</sub> SO <sub>2</sub> CO	0.019 0.010 0.251 0.002 0.053	0.076 0.039 1.012 0.006 0.213
HF-15	Ongard II Fugitive Baghouse	$\begin{array}{c} PM_{10} \\ VOC \\ NO_x \\ SO_2 \\ CO \\ ZnO \\ MgO \end{array}$	0.028 0.014 0.378 0.002 0.079 0.203 0.304	0.114 0.058 1.530 0.009 0.320 0.818 1.227
PF-8	Ongard II Mill Baghouse	PM <sub>10</sub>	0.220	0.880
ATCBLR	Antimony Trichloride Boiler	PM VOC NO <sub>x</sub> SO <sub>2</sub> CO	0.002 0.001 0.033 <0.001 0.007	0.010 0.005 0.133 <0.001 0.028
ATCFUG	Antimony Trichloride Area Fugitives (4)	C1 <sub>2</sub> ) Sb**	0.078 0.075	0.100 0.017
WS-1	Antimony Trichloride Venturi Scrubber	Sb**	0.120	0.484
PF-9	Antimony Sulfide Grin 0.315 Baghouse	nder	Sb**	0.078

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

Emission	Source	Air Contaminant	<u>Emission</u>	Rates *
Point No. (1)	Name (2)	Name (3)	1b/hr	TPY
HF-20	Compounding Plant Baghouse	Sb**	0.275	1.109
HF-21	Pilot Plant Baghouse	Sb**	0.025	0.101
HF-22	Sodium Antimonate Hygiene Baghouse 2	PM <sub>10</sub> Sb**	0.354 0.019	1.427 0.077
HF-24	Flexkleen Baghouse	Zinc Borate	0.070	0.283
HF-25	Feed Hopper Baghouse	Sb**	0.064	0.260
HF-26	Calciner, Milling, and Classifying Baghous		0.430 0.023	1.732 0.094
HF-27	Ongard Feed Bin Flexkleen Baghouse	$PM_{10}$	0.03	0.12
HF-28	Antimony Sulfide Hygi 0.285 Baghouse	ene	Sb	0.071
HF-29	Antimony Oxide Hygien Baghouse	e PM <sub>10</sub> Sb**	0.589 0.032	2.375 0.128
HF-31	Sodium Antimonate Silo Baghouse	o Sb**	0.011	0.046
PF-11	Milling Baghouse	Sb**	0.168	0.675
SAF-2	Calciner Furnace	$\begin{array}{c} PM_{10} \\ VOC \\ NO_x \\ SO_2 \\ CO \end{array}$	0.030 0.013 0.251 0.002 0.053	0.121 0.053 1.011 0.006 0.212

## EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Emission	Source	Air Contaminant	<u>Emission</u>	Rates *
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
ZBPLNT1	Building Vent 1 (4)	Zinc Borate ZnO Boric Acid	0.004 0.019 0.047	0.016 0.077 0.190

ZBPLNT2	Building Vent 2 (4)	Zinc Borate ZnO Boric Acid	0.004 0.019 0.047	0.016 0.077 0.190
ZBPLNT3	Building Vent 3 (4)	Zinc Borate ZnO Boric Acid	0.004 0.019 0.047	0.016 0.077 0.190
ZBPLNT4	Building Vent 4 (4)	Zinc Borate ZnO Boric Acid	0.004 0.019 0.047	0.016 0.077 0.190
ZNBORBLR	Zinc Borate Boiler	PM VOC NO <sub>x</sub> SO <sub>2</sub> CO	0.001 <0.001 0.015 <0.001 0.003	0.005 0.002 0.061 <0.001 0.013
TF-1	Transfer System	$PM_{10}$	0.184	0.740
Slgcrusher	Slag Crusher (4) (5)	PM PM <sub>10</sub>	0.001 0.001	0.005 0.005
Slgscreen	Slag Screen (4) (5)	PM PM <sub>10</sub>	0.027 0.027	0.109 0.109
Slgpiles	Slag Stockpile (4)	PM PM <sub>10</sub>		2.713 1.308
AST-1	Diesel Tank Vent	VOC	0.014	<0.001
AST1-F	Diesel Tank System (4)	VOC	<0.001	<0.001
AST-2	Gasoline Tank Vent	VOC	2.415	0.051
AST2-F	Gasoline Tank System (4) 0.069	)	VOC	0.110
FUGC	Crude Building (4)	Sb**	0.001	0.004
FUGF	Furnace Building (4)	Sb**	0.001	0.004

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Emission	Source	Air Contaminant	<u>Entims stacion n</u> R	a <b>Ras</b> es
<u>Point No. (1)≝</u>	Name (2)	Name (3)	lb/hr	TPY
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
FUGS	Sodium Antimony Buil 0.001	ding (4)	Sb**	<0.001
FUG-HF30	Sodium Antimonate Bu 0.021	ilding (4)	Sb**	0.005
FUGB	Banbury Building (4)	Sb**	<0.001	<0.001
FUGN	Inter Warehouse Nort	h (4)	Sb**	0.001
FUGW	Inter Warehouse West 0.004	(4)	Sb**	0.001

- (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, suspended in the atmosphere, including  $PM_{10}$   $PM_{10}$  particulate matter less than or equal to 10 microns in diameter. Where PM is not listed, it shall be assumed that no particulate matter greater than 10 microns is emitted.
  - VOC volatile organic compounds as defined in General Rule 101.1
  - $NO_x$  total oxides of nitrogen
  - SO<sub>2</sub> sulfur dioxide
  - CO carbon monoxide
  - Sb antimony or antimony compound
  - ZnO zinc oxide
  - MgO magnesium oxide
  - Cl<sub>2</sub> chlorine
- (4) Fugitive emissions are an estimate only.
- (5) Maximum allowable hourly throughput is 40 tons and the maximum annual throughput is 322,560 tons.
- \*\* Antimony and/or antimony compound. Where there is a  $PM_{10}$  allowable

Source

Emission

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Air Contaminant

## AIR CONTAMINANTS DATA

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<u>Poir</u>	nt No. (1 <u>)"</u>	Name (2)	Name (3)	lb/hr	TPY
<u>Poir</u>	nt No. (1)	Name (2)	Name (3)	lb/hr	<u>TPY</u>
	-	antimony/antimony from that emission	compound is a port on point.	ion of the	total
		es are based on imum operating sch	and the facilities and ledule:	re limited	by the
8,06	Hrs/day <u>24</u> 64_	Days/week	7 Weeks/year	<u>48</u> or H	rs/year