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.

AIR CONTAMINANTS DATA

Emission *	Source	Air Contaminant	<u>Emission</u>	Rates
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
PF-1	Revolatilizing Furnace-1 Baghouse	$\begin{array}{c} PM_{10} \\ VOC \\ NO_x \\ SO_2 \\ CO \\ Sb** \end{array}$	0.307 0.007 0.185 0.001 0.039 0.017	1.237 0.031 0.810 0.005 0.170 0.067
PF-2	Revolatilizing Furnace-1 Baghouse	$\begin{array}{c} PM_{10} \\ VOC \\ NO_x \\ SO_2 \\ CO \\ Sb** \end{array}$	0.352 0.007 0.185 0.001 0.039 0.019	1.420 0.031 0.810 0.005 0.170 0.077
PF-3	Cupola Furnace Baghouse	PM ₁₀ VOC NO _x SO ₂ CO Sb**	0.307 0.004 0.109 <0.001 0.023 0.017	1.237 0.018 0.477 0.003 0.100 0.067
PF-4	Cupola Furnace Baghouse	PM ₁₀ VOC NO _x SO ₂ CO Sb**	0.278 0.004 0.109 <0.001 0.023 0.015	1.122 0.018 0.477 0.003 0.100 0.061
PF-5	Revolatilizing Furnace-3 Cartridge F 0.062	PM ₁₀ Filter NO _x	0.651 VOC 0.370	2.623 0.014 1.619

Emission *	Source	Air Contaminant	<u>Emissio</u>	n Rates
Point No. (1)	Name (2)	Name (3)	1b/hr	TPY
PF-6	MS4 Classifier Baghous	SO_2 CO $Sb**$ e PM_{10} $Sb**$	0.002 0.078 0.035 0.246 0.013	0.010 0.340 0.142 0.493 0.054
PF-7	MS5 Classifier Baghous	e PM ₁₀ 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 0.054 2.378 29.840 0.171 0.042	3.121 0.219 9.616 120.310 0.691 0.169
HF-2	South Fullers Blast Furnace Baghouse	PM_{10} VOC NO_x SO_2 CO Sb**	1.149 0.054 2.378 29.840 0.171 0.062	4.632 0.219 9.616 120.310 0.691 0.250
HF-3	Cupola Hygiene Baghous	e PM ₁₀ 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
CVS-1	Old Central Vacuum	Sb**	0.092	0.370

Emission *	Source	Air Contaminant	Emission	Rates
Point No. (1)	Name (2)	Name (3)	1b/hr	TPY
	System Baghouse			
CVS-2	New Central Vacuum System Baghouse	Sb**	0.092	0.370
SODANTFURN	Sodium Antimonate Furnace	PM VOC NO _x SO ₂ 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	PM_{10} VOC NO_x SO_2 CO ZnO MgO	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_{10}	0.220	0.880
ATCBLR	Antimony Trichloride Boiler	PM VOC NO _x SO ₂ 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 ₂ Sb**	0.078 0.075	0.100 0.017
WS-1	Antimony Trichloride Venturi Scrubber	Sb**	0.150	0.605
PF-9	Antimony Sulfide Grinde Baghouse	er Sb**	0.078	0.315

Emission *	Source	Air Contaminant	Emission	Rates
Point No. (1)	Name (2)	Name (3)	lb/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 ₁₀ 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 Baghouse		0.430 0.023	1.732 0.094
HF-27	Ongard Feed Bin Flexkleen Baghouse	PM_{10}	0.03	0.12
PF-11	Milling Baghouse	Sb**	0.142	0.571
SAF-2	Calciner Furnace	PM_{10} VOC NO_x SO_2 CO	0.030 0.013 0.251 0.002 0.053	0.121 0.053 1.011 0.006 0.212
ZBPLNT1	Building Vent 1 (4)	Zinc Borate ZnO Boric Acid	0.004 0.019 0.047	0.015 0.077 0.190
ZBPLNT2	Building Vent 2 (4)	Zinc Borate ZnO Boric Acid	0.004 0.019 0.047	0.015 0.077 0.190
ZBPLNT3	Building Vent 3 (4)	Zinc Borate ZnO Boric Acid	0.004 0.019 0.047	0.015 0.077 0.190

Emission *	Source	Air Contaminant	<u>Emission</u>	Rates
Point No. (1)	Name (2)	Name (3)	lb/hr	<u>TPY</u>
ZBPLNT4	Building Vent 4 (4)	Zinc Borate ZnO Boric Acid	0.004 0.019 0.047	0.015 0.077 0.190
ZNBORBLR	Zinc Borate Boiler	$\begin{array}{c} PM \\ VOC \\ NO_x \\ SO_2 \\ CO \end{array}$	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 ₁₀	0.001 0.001	0.005 0.005
Slgscreen	Slag Screen (4)(5)	PM PM ₁₀	0.027 0.027	0.109 0.109
Slgpiles	Slag Stockpile (4)	PM PM ₁₀		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) VOC	0.110	0.069
FUGC	Crude Building (4)	Sb**	0.001	0.004
FUGF	Furnace Building (4)	Sb**	0.001	0.004
FUGS	Sodium Antimony Buildi 0.001	ng (4)	Sb**	<0.001
FUGB	Banbury Building (4)	Sb**	<0.001	<0.001
FUGN	Inter Warehouse North	(4) Sb**	0.001	0.004

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FUG	Inter Warehouse West (4) Sb** 0.001 0.004
(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
fug	tive 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 ₂ - sulfur dioxide
	CO - carbon monoxide
	Sb - antimony or antimony compound
	ZnO – zinc oxide
	MgO - magnesium oxide
	Cl ₂ - chlorine
	Fugitive emissions are an estimate only.
	Maximum allowable hourly throughput is 40 tons and the maximum annual
thr	ughput is 322,560 tons.
**	Antimony and/or antimony compound. Where there is a PM_{10} allowable listed, the antimony/antimony compound is a portion of the total allowable PM_{10} from that emission point.
*	Emission rates are based on and the facilities are limited by the following maximum operating schedule:
Hrs,	Hrs/day <u>24</u> Days/week <u>7</u> Weeks/year <u>48</u> or year <u>8,064</u>

Dated____