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
<u>*</u> Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
PF-1	Revolatilizing Furnace-1 Baghouse	PM_{10} VOC NO_{x} SO_{2} CO	0.307 0.007 0.185 0.001 0.039	1.237 0.031 0.810 0.005 0.170
PF-2	Revolatilizing Furnace-1 Baghouse	PM_{10} VOC NO_x SO_2 CO	0.352 0.007 0.185 0.001 0.039	1.420 0.031 0.810 0.005 0.170
PF-3	Cupola Furnace Baghous	e PM ₁₀ VOC NO _x SO ₂ CO	0.307 0.004 0.109 <0.001 0.023	1.237 0.018 0.477 0.003 0.100
PF-4	Cupola Furnace Baghous	e PM ₁₀ VOC NO _x SO ₂ CO	0.278 0.004 0.109 <0.001 0.023	1.122 0.018 0.477 0.003 0.100
PF-5	Revolatilizing Furnace-3 Cartridge 0.062	PM ₁₀ Filter NO _x SO ₂	0.651 VOC 0.370 0.002	2.623 0.014 1.619 0.010

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Emission *	Source A	Air Contaminant	<u>Emissic</u>	on Rates
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
		CO	0.078	0.340
PF-6	MS4 Classifier Baghouse	PM ₁₀	0.246	0.493
PF-7	MS5 Classifier Baghouse	PM_{10}	0.486	0.972
HF-1	North Fullers Blast Furnace Baghouse	PM_{10} VOC NO_x SO_2 CO	0.774 0.054 2.378 29.840 0.171	3.121 0.219 9.616 120.310 0.691
HF-2	South Fullers Blast Furnace Baghouse	$\begin{array}{c} PM_{10} \\ VOC \\ NO_x \\ SO_2 \\ CO \end{array}$	1.149 0.054 2.378 29.840 0.171	4.632 0.219 9.616 120.310 0.691
HF-3	Cupola Hygiene Baghouse	PM_{10}	0.506	2.039
HF-4	Auger Packer Baghouse	PM_{10}	0.318	1.283
HF-10	Crude Oxide Silo Hygiene Baghouse	PM ₁₀	0.037	0.148
CVS-1	Old Central Vacuum System Baghouse	PM_{10}	0.092	0.370
CVS-2	New Central Vacuum System Baghouse	PM_{10}	0.092	0.370
SODANTFURN	Sodium Antimonate Furnace	PM VOC NO _x SO ₂	0.019 0.010 0.251 0.002	0.076 0.039 1.012 0.006

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AIR CONTAMINANTS DATA

Emission *	Source	Air Contaminant	<u>Emission</u>	Rates
Point No. (1)	Name (2)	Name (3)	1b/hr	TPY
		СО	0.053	0.213
HF-22	Sodium Antimonate Hygiene Baghouse 2	NaSbO₃	0.354	1.427
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 Packaging Baghouse	ZnO MgO	0.205 0.308	0.828 1.241
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)	$C1_2$ TSP PM_{10}	0.078 0.075 0.008	0.100 0.017 0.002
WS-1	Antimony Trichloride Venturi Scrubber	SbC1₃	0.075	0.302
PF-9	Antimony Sulfide Grinde Baghouse	er Sb₂S₃	0.078	0.315
HF-20	Compounding Plant Baghouse	PM_{10}	0.275	1.109

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES AIR CONTAMINANTS DATA

Emission *	Source	Air Contaminant	Emission	Rates
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
HF-21	Pilot Plant Baghouse	PM ₁₀	0.025	0.101
HF-24	Flexkleen Baghouse	Zinc Borate	0.070	0.283
HF-25	Feed Hopper Baghouse	PM ₁₀	0.064	0.260
HF-26	Calciner, Milling, and Classifying Baghouse		0.430	1.732
PF-11	Milling Baghouse	PM_{10}	0.142	0.571
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
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
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	PM VOC NO _x SO ₂	0.001 <0.001 0.015 <0.001	0.005 0.002 0.061 <0.001

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Emission *	Source	Air Contaminant	<u>Emissio</u>	n Rates
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
		СО	0.003	0.013
TF-1	Transfer System	PM_{10}	0.184	0.740
Slgcrusher	Slag Crusher (4)(5)	TSP PM ₁₀	0.189 0.011	0.064 0.004
Slgscreen	Slag Screen (4)(5)	TSP PM ₁₀	0.108 0.081	0.036 0.027
Slgpiles	Slag Stockpile (4)	TSP 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	1) VOC	0.110	0.069
FUGC	Crude Building (4)	PM ₁₀	0.001	0.004
FUGF	Furnace Building (4)	PM ₁₀	0.001	0.004
FUGS	Sodium Antimony Buildir 0.001	ng (4)	PM ₁₀	<0.001
FUGB	Banbury Building (4)	PM_{10}	<0.001	<0.001
FUGN	Inter Warehouse North ((4) PM ₁₀	0.001	0.004
FUGW	Inter Warehouse West (4	1) PM ₁₀	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 fugitive source name.

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

(3)	PM_{10}	_	particulate matter less than 10 microns in diameter
	V0C	_	volatile organic compounds as defined in General Rule 101.1
	NO_x		total oxides of nitrogen
	SO_2	_	sulfur dioxide
	CO	_	carbon monoxide
	PM	_	particulate matter
	NaSb0₃	_	sodium antimonate
	Zn0	_	zinc oxide
	Mg0	_	magnesium oxide
			chlorine
	SbC ₁ ₃	_	antimony trichloride
	Sb_2S_3	_	antimony sulfide
	TSP	_	total suspended particulate matter (including PM ₁₀)
(4)			emissions are an estimate only.
(5)	throu	ւցիր ոց r	allowable hourly throughput is 15 tons and the maximum annual out is 10,080 tons. Crusher and screen shall not be operated normal plant operations and then for a maximum of 28 days per
*			rates are based on and the facilities (except slag crusher een) are limited by the following maximum operating schedule:
Hrs			<u>24</u> Days/week <u>7</u> Weeks/year <u>48</u> or .064
			Dated
			Dateu