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	Emission Rat	tes *
Point No. (1)	Name (2)	Name (3)	<u>lb/hr</u>	TPY
PF-1	Revolatilizing Furnace-1 Baghouse	PM_{10} VOC NO_x SO_2 CO Sb^{**}	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	PM_{10} VOC NO_x SO_2 CO Sb^{**}	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

Emission	Source	Air Contaminant	Emission F	Rates *
Point No. (1)	Name (2)	Name (3)	lb/hr	<u>TPY</u>
PF-5	Revolatilizing Furnace-3 Cartridge Filter	PM_{10} VOC NO_x SO_2 CO Sb^{**}	0.651 0.014 0.370 0.002 0.078 0.035	2.623 0.062 1.619 0.010 0.340 0.142
PF-6	MS4 Classifier Baghouse	PM ₁₀ Sb**	0.246 0.013	0.493 0.054
PF-7	MS5 Classifier Baghouse	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 0.004 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 Baghouse	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)	Sb**	0.030	0.110

Emission	Source	Air Contaminant	Emission F	Rates *
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
	Baghouse			
HF-12	Nauta 2 (Stranding) Baghouse	Sb**	0.030	0.110
CVS-1	Old Central Vacuum System Baghouse	Sb**	0.092	0.370
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	$\begin{array}{c} PM_{10} \\ VOC \\ NO_{x} \\ SO_{2} \\ CO \\ ZnO \\ MgO \end{array}$	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 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	Cl_2	0.078	0.100

Emission	Source	Air Contaminant	Emission R	Emission Rates *	
Point No. (1)	Name (2)	Name (3)	<u>lb/hr</u>	TPY	
	Area Fugitives (4)	Sb**	0.075	0.017	
WS-1	Antimony Trichloride Venturi Scrubber	Sb**	0.120	0.484	
PF-9	Antimony Sulfide Grinder Baghouse	Sb**	0.078	0.315	
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	PM ₁₀ Sb**	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 Hygiene Baghouse	Sb	0.071	0.285	
HF-29	Antimony Oxide Hygiene Baghouse	PM ₁₀ Sb**	0.589 0.032	2.375 0.128	
HF-31	Sodium Antimonate Silo Baghouse	Sb**	0.011	0.046	
HF-33	ZO/BA Milling Hygiene Baghouse	ZO BA	0.062 0.061	0.247 0.247	

Emission	Source	Air Contaminant	Emission F	Rates *
Point No. (1)	Name (2)	Name (3)	lb/hr	<u>TPY</u>
HF-34	Ongard Final Packing	ZO	0.045	0.181
	Baghouse	МО	0.067	0.271
PF-11	Milling Baghouse	Sb**	0.168	0.675
SAF-2	Calciner Furnace	PM_{10}	0.030	0.121
		VOC	0.013	0.053
		NO _x	0.251	1.011
		SO ₂ CO	0.002 0.053	0.006 0.212
		CO	0.033	0.212
ZBPLNT1	Building Vent 1 (4)	Zinc Borate	0.062	0.167
	3 ()	Boric Acid	0.061	0.166
ZBPLNT2	Building Vent 2 (4)	Zinc Borate	0.062	0.167
		Boric Acid	0.061	0.166
ZBPLNT3	Building Vent 3 (4)	Zinc Borate	0.062	0.167
	• ()	Boric Acid	0.061	0.166
ZBPLNT4	Building Vent 4 (4)	Zinc Borate	0.062	0.167
	,	Boric Acid	0.061	0.166
ZNBORBLR	Zinc Borate Boiler	PM	0.001	0.005
		VOC	< 0.001	0.002
		NO_x	0.015	0.061
		SO_2	< 0.001	< 0.001
		СО	0.003	0.013
TF-1	Transfer System	PM_{10}	0.184	0.740
Slgcrusher	Slag Crusher (4) (5)	PM	0.001	0.005
-		PM_{10}	0.001	0.005

Slgscreen	Slag Screen (4) (5)		PM PM ₁₀	0.027 0.027	0.109 0.109
SIgpiles	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 Building	(4)	Sb**	<0.001	0.001
FUG-HF30	Sodium Antimonate Buildin	g (4)	Sb**	0.005	0.021
FUGB	Banbury Building (4)	Sb** VOC	PM ₁₀ 0.0001 0.125	0.0004 <0.001 0.078	0.002
FUGN	Inter Warehouse North (4)	Sb**	PM ₁₀ 0.001	0.004 0.004	0.016
FUGW	Inter Warehouse West (4)	Sb**	PM ₁₀ 0.001	0.004 0.004	0.016

⁽¹⁾ Emission point identification - either specific equipment designation or emission point number from a plot plan.

 ⁽²⁾ Specific point source names. For fugitive sources, use area name or fugitive source name.
 (3) PM - particulate matter, suspended in the atmosphere, including PM₁₀

AIR CONTAMINANTS DATA

Emission	Source	Air Contaminant	Emission Rates *	
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY

PM₁₀ - 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 30 Texas Administrative Code Section 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

Cl₂ - chlorine ZN - zinc oxides BA - boric acid

- (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 listed, the antimony or 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/day 24 Days/week 7 Weeks/year 48 or Hrs/year 8,064

Dated August 3, 2000