

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit No. T-18792

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)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u>	
			lb/hr	TPY
HF-14	Sodium Antimonate Furnace - Baghouse 1	PM ₁₀	0.064	0.258
		VOC	0.010	0.040
		NO _x	0.251	1.012
		SO ₂	0.002	0.008
		CO	0.053	0.214
HF-22	Sodium Antimonate- Hygiene Baghouse 2	NaSbO ₃	0.354	1.427
HF-15	Ongard I Furnace Norbo 4 - Baghouse	PM ₁₀	0.507	2.044
		VOC	0.008	0.033
		NO _x	0.198	0.798
		SO ₂	0.001	0.004
		CO	0.042	0.169
PF-8	Ongard II Furnace Norbo 5 - Baghouse	PM ₁₀	0.513	2.069
		VOC	0.008	0.033
		NO _x	0.198	0.798
		SO ₂	0.001	0.004
		CO	0.042	0.169
WS-1	Antimony Trichloride Boiler-Venturi Scrubber	PM ₁₀	0.075	0.302
		VOC	0.001	0.004
		NO _x	0.033	0.133
		SO ₂	<0.001	<0.001
		CO	0.007	0.030
		Cl ₂	0.078	0.315
PF-9	Antimony Sulfide Plant - Baghouse	Sb ₂ S ₃	0.078	0.314
HF-16	Stranding Plant- Baghouse	NaSbO ₃	0.099	0.399

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HF-17	Strand Silo 1 - Baghouse	NaSbO ₃	0.079	0.319
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HF-18	Strand Silo 2 - Baghouse	NaSbO ₃	0.079	0.319
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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY
HF-19	Strand Silo 3 - Baghouse	NaSbO ₃	0.079	0.319
HF-20	Compounding Plant - Baghouse	NaSbO ₃	0.275	1.110
HF-21	Pilot Plant - Baghouse Baghouse	NaSbO ₃	0.025	0.102
HF-23	Boric Acid - Mac Baghouse	PM ₁₀	0.350	1.532
HF-24	Zinc Borate Process - Flexkleen Baghouse	PM ₁₀	0.070	0.306
PF-10	Zinc Borate Process - MikroPul Baghouse	PM ₁₀	0.126	0.551
ZBPLNT1	Building Vent 1 (4)	Zinc Borate	<0.001	0.003
		Zinc Oxide	0.019	0.084
		Boric Acid	0.038	0.167
		PM ₁₀	<0.001	0.001
		VOC	<0.001	0.001
		NO _x	0.004	0.017
		SO ₂	<0.001	<0.001
		CO	<0.001	0.003
ZBPLNT2	Building Vent 2 (4)	Zinc Borate	<0.001	0.003
		Zinc Oxide	0.019	0.084
		Boric Acid	0.038	0.167

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		PM ₁₀	<0.001	0.001
		VOC	<0.001	0.001
		NO _x	0.004	0.017
		SO ₂	<0.001	<0.001
		CO	<0.001	0.003
ZBPLNT3	Building Vent 3 (4)	Zinc Borate	0.001	0.003
		Zinc Oxide	0.019	0.084
		Boric Acid	0.038	0.167
		PM ₁₀	<0.001	0.001
		VOC	<0.001	0.001
		NO _x	0.004	0.017
		SO ₂	<0.001	<0.001
		CO	<0.001	0.003

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY
ZBPLNT4	Building Vent 4 (4)	Zinc Borate	0.001	0.003
		Zinc Oxide	0.019	0.084
		Boric Acid	0.038	0.167
		PM ₁₀	<0.001	0.001
		VOC	<0.001	0.001
		NO _x	0.004	0.017
		SO ₂	<0.001	<0.001
		CO	<0.001	0.003

- (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) NaSbO₃ - sodium antimonate
 SbCl₃ - antimony chloride
 Cl₂ - chlorine
 Sb₂S₃ - antimony sulfide
 PM₁₀ - particulate matter less than 10 microns in diameter
 VOC - volatile organic compounds as defined in General Rule 101.1
 NO_x - total oxides of nitrogen
 SO₂ - sulfur dioxide
 CO - carbon monoxide
- (4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.

* Emission rates are based on the following processes and are limited by the associated maximum operating schedule:

Hrs/day 24 Days/week 7 Weeks/year 48 or Hrs/year 8,060

Dated_____