

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit No. S-18387

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 Rates</u>	
<u>Point No. (1)</u>	<u>Name (2)</u>	<u>Name (3)</u>	<u>lb/hr</u>	<u>TPY</u>
1	Caustic Cleaner (4)	NaOH	0.005	0.016
3	Pickle Tank (4)	HCl	0.012	0.039
4	Pickle Tank (4)	HCl	0.012	0.039
5	Pickle Tank (4)	HCl	0.012	0.039
7	Preflux Tank (4)	NH ₄ Cl	0.027	0.084
8	Zinc Kettle (A) Heater Stack 0.071		PM ₁₀	0.016
		SO ₂	0.008	0.004
		NO _x	0.135	0.590
		CO	0.028	0.124
		VOC	0.008	0.034
9	Zinc Kettle (A) Baghouse	PM ₁₀	0.545	1.704
		ZnO	0.086	0.269
		Zn	0.027	0.084
		ZnCl ₂	0.020	0.061
		NH ₃	0.005	0.017
13	Caustic Cleaner (4)	NaOH	0.001	0.002
15	Pickle Tank (4)	HCl	0.002	0.008
17	Caustic Cleaner (4)	NaOH	0.025	0.079
19	Pickle Tank (4)	HCl	0.026	0.082

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<u>Point No. (1)</u>	<u>Name (2)</u>	<u>Name (3)</u>	<u>lb/hr</u>	<u>TPY</u>
20	Pickle Tank (4)	HCl	0.026	0.082
21	Pickle Tank (4)	HCl	0.026	0.082
23	Preflux Tank (4)	NH ₄ Cl	0.128	0.399
24	Zinc Kettle (B) Heater Stack	PM ₁₀	0.077	0.337
		SO ₂	0.004	0.017
		NO _x	0.641	2.809
		CO	0.135	0.589
		VOC	0.037	0.163
25	Zinc Kettle (B) Baghouse	PM ₁₀	0.520	1.620
		ZnO	0.082	0.256
		Zn	0.026	0.079
		ZnCl ₂	0.187	0.584
		NH ₃	0.005	0.016
26	Zinc Heating Kettle Baghouse	PM ₁₀	0.125	0.125
		ZnO	0.020	0.020
		Zn	0.006	0.006
		ZnCl ₂	0.045	0.045
		NH ₃	.001	0.001
27	Zinc Heating Kettle Burner Stack	PM ₁₀	0.005	0.021
		SO ₂	<0.001	0.001
		NO _x	0.040	0.175
		CO	0.008	0.037
		VOC	0.002	0.010
28	Zinc Recovery Crucible Baghouse	PM ₁₀	0.125	0.125
		ZnO	0.198	0.198
		Zn	0.006	0.006
		ZnCl ₂	0.045	0.045
		NH ₃	0.001	0.001

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			lb/hr	TPY
29	Zinc Recovery Crucible Heater Stack	PM ₁₀	0.001	0.002
		SO ₂	<0.001	<0.001
		NO _x	0.010	0.012
		CO	0.002	0.003
		VOC	<0.001	<0.001
30	Hand Paint Dipping (4)	VOC	1.326	0.199
31	Zinc Ammonium Chloride Heater Stack	PM ₁₀	0.001	0.004
		SO ₂	----	<0.001
		NO _x	0.008	0.040
		CO	0.002	0.007
		VOC	<0.001	0.002

(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) NaOH - sodium hydroxide

HCl - hydrogen chloride

NH₄Cl - ammonium chloride

PM₁₀ - particulate matter (PM) equal to or less than 10 microns in diameter. Where PM is not listed, it shall be assumed that no particulate matter greater than 10 microns is emitted.

SO₂ - sulfur dioxide

NO_x - total oxides of nitrogen

CO - carbon monoxide

VOC - volatile organic compounds as defined in General Rule 101.1

ZnO - zinc oxide

Zn - zinc

ZnCl₂ - zinc chloride

NH₃ - ammonium

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<u>Point No. (1)</u>	<u>Name (2)</u>	<u>Name (3)</u>	<u>lb/hr</u>	<u>TPY</u>

(4) Fugitive emissions are an estimate only.

Emission rates are based on and the facilities are limited by the following maximum operating schedule:

Hrs/day 24 Days/week 6 Weeks/year 50

Dated _____