

## EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit No. 7320

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	Emission Rates	
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
1	Boiler Stack	PM	0.04	0.18
		CO	0.07	0.31
		SO <sub>2</sub>	<0.001	<0.01
		NO <sub>x</sub>	0.34	1.5
		VOC	0.02	0.87
2	Zinc Kettle No. 1 Burner Stack	PM	0.022	0.10
		CO	0.38	0.17
		SO <sub>2</sub>	0.001	0.005
		NO <sub>x</sub>	0.18	0.80
		VOC	0.011	0.05
3	Zinc Kettle No. 2 Burner Stack	PM	0.08	0.33
		CO	0.13	0.59
		SO <sub>2</sub>	0.004	<0.02
		NO <sub>x</sub>	0.64	2.78
		VOC	0.03	0.16
4	Baghouse No. 1 Vent (5) (6)	PM <sub>10</sub>	0.009	0.022
		NH <sub>4</sub> Cl	0.006	0.015
		ZnO	0.001	0.003
		Zn	0.0004	0.001
		ZnCl <sub>2</sub>	0.0003	<0.0008
		NH <sub>3</sub>	<0.0001	0.0002

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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/hrTPY</u>	
5	Baghouse No. 2 Vent (5) (6)	PM <sub>10</sub>	0.018	0.043
		NH <sub>4</sub> Cl	0.012	0.03
		ZnO	<0.003	<0.007
		Zn	<0.0009	0.002
		ZnCl <sub>2</sub>	<0.0007	<0.002
		NH <sub>3</sub>	<0.0002	<0.0005
BLDG FUG	HCl Acid Tanks Caustic Clean Tank (4)	HCl	0.02	0.04
		NaOH	0.08	0.33
SHPTHT-1	Caustic Tank Heater No. 1	PM <sub>10</sub>	0.004	0.02
		SO <sub>2</sub>	<.001	<0.001
		NO <sub>x</sub>	0.03	0.14
		CO	0.007	0.03
		VOC	0.002	<0.008
SHPTHT-2	Caustic Tank Heater No. 2	PM <sub>10</sub>	0.004	0.02
		SO <sub>2</sub>	<.001	<0.001
		NO <sub>x</sub>	0.03	0.14
		CO	0.007	0.03
		VOC	0.002	<0.008
SB FUG	Sandblasting (4) (7)	PM	0.05	0.21
		PM <sub>10</sub>	0.012	0.05
VGNHCL	Hydrochloric Acid (7) Storage Tank	HCl	0.004	<0.02

(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.

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- (3) PM - particulate matter, suspended in the atmosphere, including  
PM<sub>10</sub> - particulate matter 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.
- CO - carbon monoxide  
SO<sub>2</sub> - sulfur dioxide  
NO<sub>x</sub> - total oxides of nitrogen  
VOC - volatile organic compounds as defined in General Rule 101.1  
NH<sub>4</sub>Cl - ammonium chloride  
ZnO - zinc oxide  
ZnCl<sub>2</sub> - zinc chloride  
Zn - zinc  
NH<sub>3</sub> - ammonium  
HCl - hydrogen chloride  
NaOH - sodium hydroxide
- (4) Fugitive emissions are an estimate only.
- (5) PM<sub>10</sub> includes NH<sub>4</sub>Cl, NH<sub>3</sub>, ZnO, ZnCl<sub>2</sub>, and Zn.
- (6) Total emissions from the two baghouses will not exceed the sum of the listed quantities for the individual bag filters; however, the emissions from the individual baghouses may vary from a 33 percent and 67 percent ratio as depicted to a 50 percent and 50 percent ratio of the total emissions from both filters.
- (7) Permitted, but operates per criteria of an exemption.

\* Emission rates are based on a maximum daily production of 250,000 pounds and a maximum annual production of 25,000 tons of galvanized steel and a maximum annual use of 1,750 tons of zinc, and the facilities are limited by the following maximum operating schedule:

Hrs/day 24 Days/week 7 Weeks/year 52 or Hrs/year

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8,760

Dated\_\_\_\_\_