

# 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 Point No. (1)	Source		Air Contaminant		<u>Emission Rates *</u>	
	Name (2)	Name (3)	lb/hr	TPY		
1	Boiler Stack			PM	<0.01	<0.01
				CO	<0.02	<0.03
				SO <sub>2</sub>	<0.001	<0.001
				NO <sub>x</sub>	0.06	0.13
				VOC	<0.003	<0.005
2	Zinc Kettle No. 1 Burner Stack			PM	0.006	0.013
				CO	0.024	0.052
				SO <sub>2</sub>	<0.001	<0.002
				NO <sub>x</sub>	0.12	0.26
				VOC	<0.005	<0.01
3	Zinc Kettle No. 2 Burner Stack			PM	0.017	0.039
				CO	0.070	0.158
				SO <sub>2</sub>	0.002	<0.005
				NO <sub>x</sub>	0.348	0.788
				VOC	0.013	0.030
4	Baghouse No. 1 (5) (6) Vent			PM <sub>10</sub>	0.007	0.013
				NH <sub>4</sub> Cl	<0.005	0.009
				ZnO	<0.001	<0.002
				Zn	<0.0004	<0.001
				ZnCl <sub>2</sub>	<0.0003	<0.001
				NH <sub>3</sub>	<0.0001	<0.0002
5	Baghouse No. 2 (5) (6) Vent			PM <sub>10</sub>	0.014	0.027
				NH <sub>4</sub> Cl	<0.009	0.018
				ZnO	<0.002	<0.004
				Zn	<0.0007	<0.002
				ZnCl <sub>2</sub>	<0.0005	<0.001
				NH <sub>3</sub>	<0.0002	<0.0003

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FE1	HCl Acid Tanks (4)	HCl	0.008	0.029
FE2	Caustic Clean (4) Tank	NaOH	0.05	0.22

- (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)
    - PM - particulate matter
    - PM<sub>10</sub> - particulate matter less than 10 microns in diameter
    - VOC - volatile organic compounds as defined in General Rule 101.1
    - NO<sub>x</sub> - total oxides of nitrogen
    - SO<sub>2</sub> - sulfur dioxide
    - CO - carbon monoxide
    - ZnO - zinc oxide
    - ZnCl<sub>2</sub> - zinc chloride
    - NH<sub>3</sub> - ammonium
    - NH<sub>4</sub>Cl - ammonium chloride
    - Zn - zinc
    - HCl - hydrogen chloride
    - NaOH - sodium hydroxide
  - (4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.
  - (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.
- \* Emission rates are based on a maximum daily production of 150,000 pounds, a maximum monthly production of 3,000,000 pounds, and a maximum annual production of 12,000 tons of galvanized steel and a maximum annual use of 1,200 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 8,760

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Dated \_\_\_\_\_