

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit No. 4479

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)	Emission Rates	
			lb/hr	TPY
1	Zinc Kettle Bag Filter	PM ₁₀ (5)	< 0.003	< 0.009
		NH ₄ Cl	< 0.002	< 0.006
		ZnO	< 0.001	< 0.002
		ZnCl ₂	< 0.0001	< 0.001
		Zn	< 0.0001	< 0.001
2	Zinc Kettle Heater Stack	NO _x	0.10	0.14
		CO	0.02	0.03
		VOC	0.003	0.008
		SO ₂	0.0006	0.0009
		PM ₁₀	0.012	0.017
3	Steam Boiler Heater Stack	NO _x	0.10	0.18
		CO	0.02	0.04
		VOC	0.003	0.005
		SO ₂	0.0006	0.001
		PM ₁₀	0.012	0.022
4	Pickle Tank Scrubber Stack	HCl	< 0.002	< 0.003
FE1	Acid Pickle Tank (4)	HCl	< 0.004	< 0.002
FE2	Fugitives (4) Zinc Kettle	PM (5)	0.026	0.097
		NH ₄ Cl	0.018	0.066
		ZnO	0.004	0.016
		ZnCl ₂	< 0.001	< 0.004
		Zn	< 0.002	< 0.005

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- (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, suspended in the atmosphere, includes PM₁₀.
PM₁₀ - 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.
NH₄Cl - ammonium chloride
ZnO - zinc oxide
ZnCl₂ - zinc chloride
Zn - zinc
NO_x - total oxides of nitrogen
CO - carbon monoxide
VOC - volatile organic compounds as defined in General Rule 101.1
SO₂ - sulfur dioxide
HCl - hydrogen chloride
- (4) Fugitive emissions are an estimate only.
- (5) Includes NH₄Cl, ZnO, ZnCl₂, and Zn

* Emission rates are based on a maximum daily production of 24,000 pounds and a maximum annual production of 3,750 tons of galvanized steel, a maximum annual use of 305 tons of zinc, and a maximum concentration of 20 percent w/w HCl in the pickle tanks, and the facilities are limited by the following maximum operating schedule:

Hrs/day 24 Days/week 6 Weeks/year 52 or
Hrs/year 7,488