

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit No. 20662

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)	0.40	0.96
		NH ₄ Cl	0.272	0.65
		ZnO	0.063	0.15
		ZnCl ₂	0.014	0.04
		Zn	0.019	0.05
		NH ₃	0.004	<0.01
FE1	Zinc Kettle (4)	PM ₁₀ (5)	0.420	1.0
		NH ₄ Cl	0.286	0.68
		ZnO	0.066	0.16
		Zn	0.021	0.05
		ZnCl ₂	0.015	0.04
		NH ₃	0.004	0.01
3	Zinc Kettle Burner Stack	NO _x	1.848	5.032
		CO	0.462	1.258
		VOC	0.019	0.051
		SO ₂	0.008	0.022
		PM ₁₀	0.082	0.223
4	Primary Gas Boiler Stack	NO _x	0.0114	0.0214
		CO	0.0049	0.0091
		VOC	0.0009	0.0017
		SO ₂	0.0001	0.0001
		PM ₁₀	<0.0001	<0.0001
5	Roof Fan 1 (6)	HCl	0.113	0.117

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			<u>lb/hr</u>	<u>TPY</u>
6	Roof Fan 2 (6)	HCl	0.113	0.117
7	Roof Fan 3 (6)	HCl	0.113	0.117
8A	Cooling Tower (7)	Cr VI	<0.00005	<0.00015
8B	Cooling Tower (7)	Cr VI	<0.00005	<0.00015
9	Quench Tank (4)	Cr VI	<0.00008	<0.0004

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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) PM₁₀ - particulate matter less than 10 microns
VOC - volatile organic compounds as defined in General Rule 101.1
NO_x - total oxides of nitrogen
SO₂ - sulfur dioxide
CO - carbon monoxide
ZnO - zinc oxide
ZnCl₂ - zinc chloride
NH₃ - ammonium
NH₄Cl - ammonium chloride
Zn - zinc
HCl - hydrogen chloride
Cr VI - chromium
- (4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.
- (5) Includes NH₄Cl, NH₃, ZnO, ZnCl₂, and Zn
- (6) Total HCl emissions from the roof fans shall not exceed the sum of the individual emission point values; however, the emissions from any one fan outlet may exceed the listed emission rate for the individual fan outlet.
- (7) Total Cr VI emissions from the cooling towers shall not exceed the sum of the individual emission point values; however the emissions from either cooling tower may exceed the listed emission rate for the individual cooling tower.
- * Emission rates are based on a maximum daily production of 774,000 pounds and a maximum annual production of 77,500 tons of galvanized steel and a maximum annual use of 6,500 tons of zinc, and the facilities are limited by the following maximum operating schedule:

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

Dated _____