

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit No. 20948

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)	<u>Emission Rates *</u>	
			lb/hr	TPY
F-8-A	Zinc Kettle A Fabric Filter	PM ₁₀ (5)	0.03	0.09
		NH ₄ Cl	0.02	0.06
		ZnO	<0.005	<0.02
		ZnCl ₂	0.001	<0.004
		Zn	<0.002	<0.005
		NH ₃	<0.001	<0.001
F-7-A	Zinc Kettle A (4)	PM ₁₀	0.59	1.71
		NH ₄ Cl	0.40	1.16
		ZnO	0.09	0.27
		Zn	0.03	0.08
		ZnCl ₂	0.02	0.06
		NH ₃	0.006	<0.02
X-2-A	Zinc Kettle A Burner Stack	NO _x	0.06	0.26
		CO	0.01	0.04
		VOC	<0.001	<0.001
		SO ₂	<0.001	<0.001
		PM ₁₀	0.01	0.04
X-3-A	Zinc Kettle A Burner Stack	NO _x	0.06	0.26
		CO	0.01	0.04
		VOC	<0.001	<0.001
		SO ₂	<0.001	<0.001
		PM ₁₀	0.01	0.04
X-4-A	Immersion Tube Burner (4)	NO _x	0.11	0.44
		CO	0.02	0.09
		VOC	0.01	0.04
		SO ₂	<0.001	<0.001
		PM ₁₀	0.01	0.04

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

F-4-A	Building A Pickle Tanks (4)	HCl	0.016	0.009
-------	--------------------------------	-----	-------	-------

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u>	
			lb/hr	TPY
F-8-B	Zinc Kettle B Fabric Filter	PM ₁₀ (5)	0.06	0.13
		NH ₄ Cl	0.04	0.09
		ZnO	0.01	0.02
		ZnCl ₂	0.002	0.005
		Zn	<0.003	0.006
		NH ₃	<0.001	<0.002
F-7-B	Zinc Kettle B (4)	PM ₁₀	0.98	2.58
		NH ₄ Cl	0.67	1.75
		ZnO	0.15	0.41
		Zn	0.05	0.13
		ZnCl ₂	0.04	0.09
		NH ₃	0.01	0.03
X-2-B	Zinc Kettle B Burner Stack	NO _x	0.06	0.26
		CO	0.01	0.04
		VOC	<0.001	<0.001
		SO ₂	<0.001	<0.001
		PM ₁₀	0.01	0.04
X-3-B	Zinc Kettle B Burner Stack	NO _x	0.06	0.26
		CO	0.01	0.04
		VOC	<0.001	<0.001
		SO ₂	<0.001	<0.001
		PM ₁₀	0.01	0.04
X-4-B	Immersion Tube Burner (4)	NO _x	0.11	0.44
		CO	0.02	0.09
		VOC	0.01	0.04
		SO ₂	<0.001	<0.001
		PM ₁₀	0.01	0.04
F-4-B	Building B Pickle Tanks (4)	HCl	0.023	0.014

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

- (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 in diameter
 - 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
 - (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.
- * Emission rates are based on the production rates listed below, a maximum hydrochloric acid concentration in the pickle tanks of 16 percent w/w, and the facilities are limited by the following maximum operating schedule:

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

MAXIMUM PRODUCTION RATE:

Kettle A	120 tons/day	43,800 tons/year
Kettle B	180 tons/day	65,700 tons/year

Date _____

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES