

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit No. 39567

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	<u>Emission Rates</u>	
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
1	Zinc Kettle Baghouse Stack	PM ₁₀ (5)	0.113	0.04
		NH ₄ Cl	0.077	0.03
		ZnO	0.018	0.01
		ZnCl ₂	0.005	0.01
		Zn	0.006	0.02
		NH ₃	0.001	<0.01
1 FUG	Zinc Kettle Fugitives (4)	PM ₁₀ (5)	0.032	0.12
		NH ₄ Cl	0.022	0.08
		ZnO	0.005	0.02
		ZnCl ₂	0.002	0.01
		Zn	0.002	0.01
		NH ₃	0.001	<0.01
2 FUG	Six Hydrochloric Acid Pickle Tanks (4)	HCl	0.059	0.18
3	Kettle Burner Stack	PM ₁₀	0.035	0.08
		VOC	0.017	0.04
		NO _x	0.290	0.64
		SO ₂	0.002	0.04
		CO	0.061	0.14
4	Caustic and Preflux Heaters (6) 0.02	PM ₁₀		0.006
		VOC	0.003	0.01
		NO _x	0.048	0.02
		SO ₂	0.001	0.01
		CO	0.011	0.03
5	Recovery Kettle Stack	PM ₁₀	0.005	0.03
		VOC	0.024	0.02
		NO _x	0.400	0.20

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SO ₂	0.003	0.01
CO	0.084	0.05

- (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, including 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.
 VOC - volatile organic compounds as defined in 30 Texas Administrative Code Section 101.1.
 NO_x - total oxides of nitrogen
 SO₂ - sulfur dioxide
 CO - carbon monoxide
 HCl - hydrogen chloride
 NH₄Cl - ammonium chloride
 ZnO - zinc oxide
 ZnCl₂ - zinc chloride
 Zn - zinc
 NH₃ - ammonia
- (4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.
- (5) Includes NH₄Cl, ZnO, ZnCl₂, Zn, and NH₃.
- (6) Includes 3 caustic heaters and 3 preflux heaters.

* Emission rates are based on and the facilities are limited by the following maximum operating schedule:

20 Hrs/day 7 Days/week 52 Weeks/year or 7,280
 Hrs/year

Dated_____