

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Number 42218

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*
HEAT-1	Caustic Tank Heater Stack	NO _x	0.12	0.54
		CO	0.29	1.25
		VOC	0.02	0.08
		SO ₂	0.05	0.22
		PM/PM ₁₀	<0.03	0.11
BLDG1-FUG	Six Pickle Tanks (4 and 5) Zinc Kettle Caustic Tank Preflux Tank Rinse Tanks Quench Tank Dulling Tank	HCl	0.22	0.03
		PM/PM ₁₀	2.23	2.75
		NaOH	<0.06	0.25
		NH ₄ Cl	1.45	1.58
		ZnO	0.33	0.33
		ZnCl ₂	0.12	0.25
		Zn	0.10	0.10
		NH ₃	0.02	0.02
SCRUB-1	Scrubber Stack Six Pickle Tanks, Preflux Tank	Na ₂ SiO ₃ -5H ₂ O	0.02	0.10
		HCl	0.33	0.05
		PM/PM ₁₀	0.03	0.13
		NH ₄ Cl	0.01	0.05
		ZnCl ₂	0.01	0.05
BURNER-STK	Zinc Kettle Burner Air Dryer	Na ₂ SiO ₃ -5H ₂ O	<0.01	0.03
		NO _x	0.98	4.27
		CO	1.68	7.36
		VOC	0.11	0.48
		SO ₂	0.30	1.31
		PM/PM ₁₀	0.15	0.67

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BAG-1	Zinc Kettle Baghouse	PM/PM ₁₀	0.17	0.17
		NH ₄ Cl	0.11	0.11
		ZNO	0.03	0.03
		ZnCl ₂	<0.01	<0.01
		Zn	<0.01	<0.01
		NH ₃	<0.01	<0.01
BLDG2-PNT-FUG	Painting Operations Fugitives (4 and 6) Spray Painting and Painting Operations Cleanup	PM/PM ₁₀	0.83	0.17
		VOC	1.33	0.04
BLDG2-BLST-FUG	Abrasive Blast Operations (4)	PM	0.006	0.03
		PM ₁₀	<0.002	<0.01
GEN-1	Generator (7)	PM/PM ₁₀	0.44	0.01
		NO _x	6.23	0.18
		CO	1.34	0.04
		VOC	0.44	0.01
		SO ₂	0.41	0.01

- (1) Emission point identification - either specific equipment designation or emission point number from a plot plan.
- (2) Specific point source names. For fugitive sources, use an area name or fugitive source name.

- (3) VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
- NO_x - total oxides of nitrogen

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SO ₂	-	sulfur dioxide
PM	-	particulate matter, suspended in the atmosphere, including PM ₁₀ and PM _{2.5}
PM ₁₀	-	particulate matter equal to or less than 10 microns in diameter
PM _{2.5}	-	particulate matter equal to or less than 2.5 microns in diameter
CO	-	carbon monoxide
HCl	-	hydrogen chloride
NaOH	-	sodium hydroxide
Zn	-	zinc
ZnCl ₂	-	zinc chloride
ZnO	-	zinc oxide
NH ₄ Cl	-	ammonium chloride
NH ₃	-	ammonia
Na ₂ SiO ₃ -5H ₂ O	-	sodium silicate

- (4) Fugitive emissions are an estimate only rate.
- (5) Rinse tanks, quench tank, and dulling tank operate per authorization and criteria of PBR 106.375.
- (6) Painting Operations Cleanup conducted per the authorization and criteria of PBR 106.263
- (7) Generator operates per the authorization and criteria of PBR 106.512

* Compliance with annual emission limits is based on a rolling 12-month period.

Dated December 8, 2009