

Emission Sources - Maximum Allowable Emission Rates

Special Permit Number T-17231

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, sources, and related activities. 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 (5)	
			lbs/hour	TPY (4)
P33	Electroplating (Zinc-Line) Scrubber (6)	NaOH	0.094	0.28
		H ₃ PO ₄	0.02	0.013
		CH ₃ COOH	0.06	0.050
		AgNO ₃	0.01	0.003
		HNO ₃	0.02	0.013
		HCOOH	<0.001	0.003
		HCl	0.03	0.024
		ZnCl ₂	<0.001	0.001
		CR+6	<0.001	0.001
P34	Sludge Dryer Scrubber (6)	Fe ₂ O ₃	<0.001	<0.001
		CR ₂ O ₃	0.002	0.005
		ZnO	<0.001	<0.001
		VOC	0.004	0.01
P57	Chlorine Scrubber Unit	Cl ₂	0.02	0.06
P56	Emergency Chlorine Scrubber Unit	Cl ₂	<0.002	0.007
P70A	Off-Line Coating	VOC	0.04	0.163
P70B	Off-Line Coating	VOC	0.04	0.163
P71	Chlorination Wash	Cl ₂	0.03	0.033

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P72	Natural Gas Burner	PM	<0.01	<0.01
		PM ₁₀	<0.01	<0.01
		PM _{2.5}	<0.01	<0.01
		VOC	<0.01	<0.01
		NO _x	<0.01	0.015
		CO	<0.01	0.023
		SO ₂	<0.01	<0.01

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- (1) Emission point identification - either specific equipment designation or emission point number from plot plan.
- (2) Specific point source name.
- (3)

NO _x	- total oxides of nitrogen
CO	- carbon monoxide
VOC	- volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
SO ₂	- sulfur dioxide
PM	- total particulate matter, suspended in the atmosphere, including PM ₁₀ and PM _{2.5} , as represented
PM ₁₀	- total particulate matter equal to or less than 10 microns in diameter, including PM _{2.5} , as represented
PM _{2.5}	- particulate matter equal to or less than 2.5 microns in diameter
NaOH	- sodium hydroxide
H ₃ PO ₄	- phosphoric acid
CH ₃ COOH	- acetic acid
AgNO ₃	- silver nitrate
HNO ₃	- nitric acid
HCOOH	- formic acid
HCl	- hydrochloric acid
ZnCl ₂	- zinc chloride
Cr+6	- hexavalent chromium
Fe ₂ O ₃	- ferric oxide
Cr ₂ O ₃	- chromic oxide
ZnO	- zinc oxide
Cl ₂	- chlorine
- (4) Compliance with annual emission limits (tons per year) is based on a 12 month rolling period.
- (5) The allowable emission rates include planned maintenance, startup, and shutdown activities.
- (6) A maximum hourly throughput of 158 pounds of metal hydroxide for the sludge dryer, 749 gallons of sodium hydroxide per year, and a maximum annual throughput of 18 tons of zinc salts for the zinc electroplating operation.

Date: June 17, 2014