

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Number 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
Plant No. 1				
KP-1	Zinc Kettle No. 1 Baghouse Stack	PM/PM ₁₀ (5)	0.13	0.19
		NH ₄ Cl	0.09	0.13
		ZnO	0.02	0.03
		ZnCl ₂	0.01	0.01
		Zn	0.01	0.01
		NH ₃	<0.01	<0.01
FE-1	Zinc Kettle No. 1 (4)	PM/PM ₁₀ (5)	0.70	1.01
		NH ₄ Cl	0.47	0.69
		ZnO	0.11	0.16
		ZnCl ₂	0.03	0.04
		Zn	0.03	0.05
		NH ₃	0.01	0.01
KB-1	Zinc Kettle No. 1	PM/PM ₁₀	0.03	0.08
		Burner Stack	NO _x	1.32
			4.20	
		CO	1.11	3.53
		VOC	0.07	0.23
		SO ₂	0.01	0.03
B-1	Primary Gas-Fired	PM/PM ₁₀	<0.01	<0.01
		Boiler Stack	NO _x	0.01
			0.03	
		CO	0.01	0.01
		VOC	<0.01	<0.01
		SO ₂	<0.01	<0.01
RF-1	Roof Fan 1	HCl (6)	0.02	-

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates</u>	
			lb/hr	TPY
RF-2	Roof Fan 2	HCl (6)	0.02	-
RF-3	Roof Fan 3	HCl (6)	0.02	-
RF-4	Roof Fan 4	HCl (6)	0.02	-
	Total Roof Fan Emissions (Fans 1-4)	HCl (6)	-	0.08
8A	Cooling Tower (4)(7)	Cr VI (6)	<0.00004	-
8B	Cooling Tower (4)(7)	Cr VI (6)	<0.00004	-
8A and 8B	Total Cooling Towers Emissions	Cr VI (6)	-	<0.0004
9	Quench Tank (4)	Cr VI (6)	<0.00008	<0.0003
<u>Plant No. 2</u>				
KP-2	Zinc Kettle No. 2 Baghouse Stack (Kettle Room)	PM/PM ₁₀ (5)	0.04	0.12
		NH ₄ Cl	0.03	0.08
		ZnO	0.01	0.02
		ZnCl ₂	<0.01	<0.01
		Zn	<0.01	0.01
		NH ₃	<0.01	<0.01
KB-2	Zinc Kettle No. 2 Burner Stack	PM/PM ₁₀	0.03	0.08
		NO _x	1.32	4.20
		CO	1.11	3.53
		VOC	0.07	0.23
		SO ₂	0.01	0.03
B-2	Waste Heat Boiler Boiler Stack	PM/PM ₁₀	<0.01	<0.01
		NO _x	0.01	0.02

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			lb/hr	TPY
		CO	<0.01	0.01
		VOC	<0.01	<0.01
		SO ₂	<0.01	<0.01
RF-5	Roof Fan 5	HCl (6)	0.03	-
RF-6	Roof Fan 6	HCl (6)	0.03	-
RF-7	Roof Fan 7	HCl (6)	0.03	-
	Total Roof Fans Emissions (Fans 5-7)	HCl (6)	-	0.09
10	Cooling Tower (4)	Cr VI (6)	<0.00003	<0.0001
11	Quench Tank (4)	Cr VI (6)	<0.00004	<0.0002

(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.

NH₄Cl - ammonium chloride

ZnO - zinc oxide

ZnCl₂ - zinc chloride

Zn - zinc

NH₃ - ammonium

NO_x - total oxides of nitrogen

CO - carbon monoxide

VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1.

SO₂ - sulfur dioxide

HCl - hydrogen chloride

Cr VI - hexavalent chromium

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Emission	Source	Air Contaminant	<u>Emission Rates</u>	
Point No. (1)	Name (2)	Name (3)	<u>lb/hr</u>	<u>TPY</u>

(4) Fugitive emissions are an estimate only.

(5) Includes NH_4Cl , NH_3 , ZnO , ZnCl_2 , and Zn .

(6) The combination of all Hazardous Air Pollutants (HAPs) shall not exceed 25 TPY and the facility shall emit less than 10 TPY of a single HAP.

Dated November 2, 2006