Permit No. 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 *	Source	Air Contaminant	<u>Emission</u>	Rates		
Point No. (1)	Name (2)	Name (3)	1b/hr	<u>TPY</u>		
Plant No. 1						
KP-1	Zinc Kettle No. 1 Fabric Filter	PM_{10} (5) NH_4C1 ZnO $ZnC1_2$ Zn NH_3	0.40 0.272 0.063 0.014 0.019 0.004	0.96 0.65 0.15 0.04 0.05 <0.01		
FE-1	Zinc Kettle No. 1 (4)	PM_{10} (5) NH_4C1 ZnO Zn $ZnC1_2$ NH_3	0.420 0.286 0.066 0.021 0.015 0.004	1.0 0.68 0.16 0.05 0.04 0.01		
KB-1	Zinc Kettle No. 1 Burner Stack	NO_x CO VOC SO_2 PM_{10}	1.848 0.462 0.019 0.008 0.082	5.032 1.258 0.051 0.022 0.223		
B-1 0.0114	0.0214 Stack	Primary Gas I CO VOC SO ₂ PM ₁₀	0.0049 0.0009 0.0001 <0.0001	NO _x 0.0091 0.0017 0.0001 <0.0001		

AIR CONTAMINANTS DATA

Emission *	Source	Air Contaminant	t	<u>Emissio</u>	n Rates
Point No. (1)	Name (2)	Name (3)		lb/hr	TPY
RF-1	Roof Fan 1 (6)	НС1		0.085	0.088
RF-2	Roof Fan 2 (6)	НС1		0.085	0.088
RF-3	Roof Fan 3 (6)	нс1		0.085	0.088
RF-4	Roof Fan 4 (6)	HC1		0.085	0.088
8A	Cooling Tower (4 and <0.00015	d 7)	Cr V	′I	<0.00005
8B	Cooling Tower (4 and <0.00015	d 7)	Cr V	′I	<0.00005
9	Quench Tank (4)	Cr VI	<	0.00008	<0.0004
<u>Plant No. 2</u>					
KP-2	Zinc Kettle No. 2 Fabric Filter	PM_{10} (5) NH_4C1 ZnO $ZnC1_2$ Zn NH_3		0.04 0.03 0.01 0.002 0.002 0.004	0.17 0.11 0.03 0.01 0.01 0.002
KB-2	Zinc Kettle No. 2 Burner Stack	NO_x CO VOC SO_2 PM_{10}		1.32 1.11 0.07 0.01 0.03	4.20 3.53 0.23 0.03 0.08
B-2	Waste Heat Boiler Stack	NO_{x} CO VOC SO_{2}		0.009 0.004 0.0006 0.0001	0.02 0.01 0.001 0.0001

AIR CONTAMINANTS DATA

Emission <u>*</u>	Source	Air Contaminant	<u>Emissio</u>	n Rates
Point No. (1)	Name (2)	Name (3)	1b/hr	<u>TPY</u>
		PM_{10}	0.0002	0.0004
RF-5	Roof Fan 5 (8)	нс1	0.029	0.031
RF-6	Roof Fan 6 (8)	HC1	0.029	0.031

AIR CONTAMINANTS DATA

Emission *	Source	Air Contaminant	<u>Emissio</u>	n Rates
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
RF-7	Roof Fan 7 (8)	нс1	0.029	0.031
10	Cooling Tower (4)	Cr VI	<0.00003	<0.0001
11	Quench Tank (4)	Cr VI	<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 PM_{10} PM_{10} 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

Zn - zinc

ZnCl₂ - zinc chloride

NH₃ - ammonium

NO_x - total oxides of nitrogen

CO - carbon monoxide

VOC - volatile organic compounds as defined in General Rule 101.1

SO₂ - sulfur dioxide HCl - hydrogen chloride

Cr VI - chromium

- (4) Fugitive emissions are an estimate only.
- (5) Includes NH₄Cl, NH₃, ZnO, ZnCl₂, and Zn.
- (6) Total HCl emissions from the Plant No. 1 roof fans shall not exceed the sum of the individual emission point values; however, the emissions from any one fan outlet may exceed the listed emission rate for the individual fan outlet.
- (7) Total Cr VI emissions from the Plant No. 1 cooling towers shall not exceed the sum of the individual emission point values; however, the

emissions from either cooling tower may exceed the listed emission rate for the individual cooling tower.

- (8) Total HCl emissions from the Plant No. 2 roof fans shall not exceed the sum of the individual emission point values; however, the emissions from any one fan outlet may exceed the listed emission rate for the individual fan outlet.
- * Emission rates are based on the following maximum production and usage rates and the facilities are limited by the following maximum operating schedule:

Hrs/day <u>24</u> Days/week <u>7</u> Weeks/year <u>52</u>

<u>Parameter</u>		<u>Plant No. 1</u>	<u>Plant No. 2</u>	
	Maximum daily throughput (pounds)	774,000	210,000	
	Maximum annual throughput (tons)	77,500	37,800	
	Annual zinc usage (tons)	6,500	2,160	

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