EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Number 7320

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
NGCS-1	14' Zinc Kettle Burner Stack	PM_{10}	0.014	0.03
		CO	0.15	0.33
		SO_2	0.001	<0.003
		NO_x	0.18	0.40
		VOC	0.011	0.022
		Pb	1.0E-6	2.0 E-6
NGCS-2	42' Zinc Kettle Burner Stack No. 1	PM_{10}	0.024	0.053
		CO	0.27	0.59
		SO_2	0.002	0.004
		NO_x	0.32	0.70
		VOC	0.02	0.04
		Pb	2.0 E-6	4.0E-6
NGCS-3	42' Zinc Kettle Burner Stack No. 2	PM_{10}	0.024	0.053
		CO	0.27	0.59
		SO_2	0.002	0.004
		NO_x	0.32	0.70
		VOC	0.02	0.04
		Pb	2.0 E-6	4.0E-6
BGHSE-1	14' Zinc Kettle Baghouse Stack (5) (6)	PM_{10}	<0.01	0.022
		NH_4Cl	0.006	0.015
		ZnO	0.002	0.004
		Zn	0.0005	0.001
		$ZnCl_2$	0.0004	<0.0009
		NH_3	0.0001	0.0002

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates * lb/hr	TPY
		AIR CONTAMINANTS DATA		
BGHSE-2	42' Zinc Kettle Baghouse Stack (5) (6)	PM_{10}	0.02	0.043
		NH_4Cl	0.013	0.03
		ZnO	0.003	0.007
		Zn	0.001	0.002
		$ZnCl_2$	<0.001	0.002
		NH_3	0.0002	0.0006
BLDG FUG	HCl Acid Tanks (4)(5) Caustic Clean Tank, Zinc Kettles, and HCl Tank Stick Heater	HCl	0.01	0.01
		NaOH	0.03	0.10
		PM_{10}	0.02	0.04
		NH_4Cl	0.01	0.03
		ZnO	0.003	0.007
		Zn	0.001	0.002
		$ZnCl_2$	0.001	0.002
		NH_3	0.001	0.001
		CO	0.03	0.06
		SO_2	<0.001	<0.001
		NO_x	0.04	0.08
		VOC	0.002	0.004
		Pb	2.0E-7	4.0E-7
SHPTHT-1	Caustic Tank Heater No. 1	PM_{10}	0.005	0.01
		SO_2	<.001	<0.001
		NO_x	0.06	0.14
		CO	0.05	0.12
		VOC	0.003	0.008
		Pb	3.0E-7	7.0E-7
SHPTHT-2	Caustic Tank Heater No. 2	PM_{10}	0.005	0.01
		SO_2	<.001	<0.001
		NO_x	0.06	0.14
		CO	0.05	0.12
		VOC	0.003	<0.008
		Pb	3.0E-7	7.0E-7
SBG FUG-1	Sandblasting (4)	PM	0.13	0.43

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates * lb/hr	TPY
		PM_{10}	<0.02	<0.05
ZMSFUG-1	Zinc Metal Spraying (4)	PM_{10}	<0.39	<0.07
		ZnO	0.32	<0.01
		NO_x	1.97	1.79
		CO	2.75	2.50
		VOC	0.08	<0.07
VGNHCL	Hydrochloric Acid Storage Tank	HCl	0.004	<0.02

(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 PM greater than 10 microns is emitted.
CO - carbon monoxide
SO_2 - sulfur dioxide
NO_x - total oxides of nitrogen
VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
NH_4Cl - ammonium chloride
ZnO - zinc oxide
$ZnCl_2$ - zinc chloride
Zn - zinc
NH_3 - ammonium
HCl - hydrogen chloride
NaOH - sodium hydroxide
Pb - lead
(4) Fugitive emissions are an estimate only.
(5) PM_{10} includes NH_4Cl, NH_3, ZnO, $ZnCl_2$, and Zn.

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

(6) Total emissions from the two baghouses will not exceed the sum of the listed quantities for the individual bag filters; however, the emissions from the individual baghouses may vary from a 33 percent and 67 percent ratio as depicted to a 50 percent and 50 percent ratio of the total emissions from both filters.

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

Hrs/day 24 Days/week 7 Weeks/year 52 or Hrs/year 8,760

Dated February 2, 2005