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, 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 (8)	
			lbs/hour	TPY (4)
NGCS-1	East Zinc Kettle Burner Stack No. 1	CO	0.26	0.98
		NO_x	0.31	1.17
		PM	0.02	0.09
		PM_{10}	0.02	0.09
		$PM_{2.5}$	0.02	0.09
		SO_2	<0.01	0.01
		VOC	0.02	0.06
NGCS-2	East Zinc Kettle Burner Stack No. 2	CO	0.26	0.98
		NO_x	0.31	1.17
		PM	0.02	0.09
		PM_{10}	0.02	0.09
		$PM_{2.5}$	0.02	0.09
		SO_2	<0.01	0.01
		VOC	0.02	0.06
BGHSE-1	East Zinc Kettle Baghouse Stack (6)	PM	0.04	0.10
		PM_{10}	0.04	0.10
		$PM_{2.5}$	0.04	0.10
		NH_4Cl	0.03	0.07
		ZnO	0.01	0.02
		$ZnCl_2$	<0.01	<0.01
		Zn	<0.01	<0.01
		NH_3	<0.01	<0.01

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BLDGFUG	HCl Acid Tanks, Caustic Clean Tanks, Preflux Tanks, Zinc Kettles, East Preflux Tank, and HCl Tank Stick Heater (5 and 6)	CO	0.06	0.22
		NO_x	0.07	0.26
		PM	0.62	1.48
		PM_{10}	0.62	1.48
		$PM_{2.5}$	0.62	1.48
		SO_2	<0.01	<0.01
		VOC	<0.01	0.01
		HCl	0.21	0.38
		NH_4Cl	0.38	0.80
		ZnO	0.09	0.19
		$ZnCl_2$	0.02	0.04
		Zn	0.03	0.06
		NH_3	0.01	0.01
		NaOH	0.03	0.11
PTHT-1	Caustic Tank Heater Stack	CO	0.05	0.19
		NO_x	0.06	0.23
		PM	<0.01	0.02
		PM_{10}	<0.01	0.02
		$PM_{2.5}$	<0.01	0.02
		SO_2	<0.01	<0.01
		VOC	<0.01	0.01
ABFUG	Abrasive Blasting (5)	PM	0.13	0.43
		PM_{10}	0.02	0.05
		$PM_{2.5}$	0.01	0.03

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ZMSFUG	Zinc Metal Spraying (5 and 7)	CO	<0.01	<0.01
		NO_x	0.01	0.01
		PM	0.96	0.87
		PM_{10}	0.96	0.87
		$PM_{2.5}$	0.96	0.87
		SO_2	<0.01	<0.01
		VOC	<0.01	<0.01
VGNHCL-1	East Hydrochloric Acid Storage Tank Vent	HCl	0.45	<0.005
NGCS-3	West Zinc Kettle Burner Stack	CO	0.74	2.77
		NO_x	0.88	3.30
		PM	0.07	0.25
		PM_{10}	0.07	0.25
		$PM_{2.5}$	0.07	0.25
		SO_2	0.01	0.02
		VOC	0.05	0.18
BGHSE-2	West Zinc Kettle Baghouse Stack (6)	PM	0.07	0.12
		PM_{10}	0.07	0.12
		$PM_{2.5}$	0.07	0.12
		NH_4Cl	0.05	0.08
		ZnO	0.01	0.02
		$ZnCl_2$	<0.01	<0.01
		Zn	<0.01	0.01
		NH_3	<0.01	<0.01
PTHT-3	Caustic and Preflux Heater Stack	CO	0.16	0.62
		NO_x	0.20	0.73
		PM	0.01	0.06
		PM_{10}	0.01	0.06
		$PM_{2.5}$	0.01	0.06

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		SO_2	<0.01	<0.01
		VOC	0.01	0.04
VGNHCL-2	West Hydrochloric Acid Storage Tank Vent	HCl	0.45	<0.005

(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) VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
NO_x - total oxides of nitrogen
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
CO - carbon monoxide
HCl - hydrochloric acid
NaOH - sodium hydroxide
NH_4Cl - ammonium chloride
$ZnCl_2$ - zinc chloride
ZnO - zinc oxide
Zn - zinc
NH_3 - ammonia
(4) Compliance with annual emission limits (tons per year) is based on a 12 month rolling period.
(5) Emission rate is an estimate and is enforceable through compliance with the applicable special condition(s) and permit application representations.
(6) NH_4Cl , $ZnCl_2$, ZnO, Zn, and NH_3 are included in the PM, PM_{10}, and $PM_{2.5}$.
(7) Particulate matter is estimated to be 99.9% zinc.
(8) Planned startup and shutdown emissions are included. Maintenance activities are not authorized by this permit and will need separate authorization unless the activity can meet conditions of 30 TAC 116.119.

Date: November 12, 2014