Emission Sources - Maximum Allowable Emission Rates

Permit Number 20948

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)
F-8-A	42 Foot Zinc Kettle Baghouse Stack (6)	PM	<0.04	0.11
		PM_{10}	<0.04	0.11
		$PM_{2.5}$	<0.02	0.06
		NH_4Cl	0.02	<0.08
		ZnO	<0.01	<0.02
		$ZnCl_2$	<0.01	<0.01
		Zn	<0.01	<0.01
		NH_3	<0.01	<0.01
X-2-A	42 Foot Zinc Kettle Burner Stack 1	PM	0.03	0.07
		PM_{10}	0.03	0.07
		$PM_{2.5}$	0.03	0.07
		NO_x	0.22	0.50
		CO	0.37	0.81
		VOC	0.02	0.05
		SO_2	<0.01	<0.01

Emission Sources - Maximum Allowable Emission Rates

FUGA	Building A Fugitives (NaOH Tanks, HCl Tanks, Pre-flux Tank, Pre-flux Tank Heater, and 42 Foot Zinc Kettle) (5 & 7)	PM	0.21	0.35
		PM_{10}	0.14	0.33
		$PM_{2.5}$	0.07	0.18
		NO_x	0.14	0.32
		CO	0.18	0.39
		Acetone	2.60	1.63
		VOC	3.96	1.30
		SO_2	<0.01	<0.01
		NH_4Cl	0.06	0.20
		ZnO	0.02	0.05
		Zn	0.11	0.04
		$ZnCl_2$	<0.01	0.01
		NH_3	<0.01	<0.01
		NaOH	0.03	0.12
		HCl	0.11	0.48
		Zinc Ammonium Chloride	0.03	0.12
F-8-B	61 Foot Zinc Kettle Baghouse Stack (6)	PM	0.07	0.16
		PM_{10}	0.07	0.16
		$PM_{2.5}$	0.04	0.08
		ZnO	0.01	<0.03
		Zn	<0.04	<0.08
		$ZnCl_2$	<0.01	<0.01
		NH_3	<0.01	<0.01
		NH_4Cl	0.05	0.11
X-2-B	61 Foot Zinc Kettle Burner Stack 1	PM	0.04	0.08
		PM_{10}	0.04	0.08
		$PM_{2.5}$	0.04	0.08
		NO_x	0.44	0.96
		CO	0.37	0.81

Emission Sources - Maximum Allowable Emission Rates

		VOC	0.03	0.06
		SO_2	<0.01	<0.01
X-3-B	61 Foot Zinc Kettle Burner Stack 2	PM	0.04	0.08
		PM_{10}	0.04	0.08
		$PM_{2.5}$	0.04	0.08
		NO_x	0.44	0.96
		CO	0.37	0.81
		VOC	0.03	0.06
		SO_2	<0.01	<0.01
FUGB	Building B Fugitives (NaOH Tanks, HCl Tanks, Pre-flux Tank, Pre-flux Tank Heater, and 61 Foot Zinc Kettle) (5 & 7)	PM	0.22	0.49
		PM_{10}	0.22	0.49
		$PM_{2.5}$	0.13	0.27
		NO_x	0.14	0.32
		CO	0.28	0.62
		VOC	0.02	0.04
		SO_2	<0.01	<0.01
		NH_4Cl	0.17	0.29
		ZnO	0.03	0.07
		Zn	0.01	0.02
		$ZnCl_2$	0.01	0.02
		NH_3	<0.01	<0.01
		NaOH	0.03	0.12
		HCl	0.21	0.91
		Zinc Ammonium Chloride	0.05	0.24
FUGC	Cold Galvanizing Spray and Brush on Building C Fugitives	PM	0.02	<0.01
		PM_{10}	0.02	<0.01
		$PM_{2.5}$	<0.01	<0.01
		Zn	0.01	<0.01
		Acetone	1.30	0.65

Emission Sources - Maximum Allowable Emission Rates

		VOC	2.92	0.61
		Nickel Nitrate	0.1	0.03
		Phosphoric Acid	0.2	0.05
		Zinc Nitrate	0.61	0.15
		Zinc Dihydrogen Phosphate	0.61	0.15
FUGD	Cold Galvanizing Spray Building D Fugitives	PM	0.15	0.02
		PM_{10}	0.08	0.01
		$PM_{2.5}$	0.03	<0.01
		Zn	0.10	<0.01
		Acetone	2.60	0.16
		VOC	3.95	0.15
		Nickel Nitrate	0.10	0.01
		Phosphoric Acid	0.20	0.02
		Zinc Nitrate	0.61	0.06
		Zinc Dihydrogen Phosphate	0.61	0.06
CGC-4Y (11)	Cold Galvanizing Spray and Brush on Shipping Yard	PM	0.13	0.03
		PM_{10}	0.04	0.10
		$PM_{2.5}$	0.01	0.01
		Zn	0.13	0.03
		VOC	2.18	0.63
X-5-A	Plant A Caustic Tank Heater Stack	PM	0.01	0.02
		PM_{10}	0.01	0.02
		$PM_{2.5}$	0.01	0.02
		NO_x	0.12	0.26
		CO	0.1	0.22
		VOC	0.01	0.01
		SO_2	0.01	0.01
X-5-B	Plant B Caustic Tank Heater Stack	PM	0.02	0.03
		PM_{10}	0.02	0.03

Emission Sources - Maximum Allowable Emission Rates

		$PM_{2.5}$	0.02	0.03
		NO_x	0.19	0.42
		CO	0.16	0.36
		VOC	0.01	0.02
		SO_2	0.01	<0.01

(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
ZnO -zinc oxide
$ZnCl_2$ -zinc chloride
NH_3-ammonia
NH_4Cl -ammonium chloride
Zn -zinc
HCl -hydrogen chloride
NaOH -sodium hydroxide
(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, NH_3, ZnO, $ZnCl_2$, and Zn included in the PM.
(7) NH_4Cl, NH_3, ZnO, $ZnCl_2$, Zn, NaOH, HCl, and Zinc Ammonium chloride included in the PM.
(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: September 26, 2018