

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Number 20139

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	Zinc Kettle Burner Stack	PM ₁₀	0.019	0.10
		VOC	0.014	0.06
		NO _x	0.250	1.11
		SO ₂	0.002	<0.01
		CO	0.210	0.93
BGHSE-1	Zinc Kettle Baghouse Stack (14 Feet Kettle)	PM ₁₀	0.013	0.06
		NH ₄ Cl	0.009	0.04
		ZnO	0.002	0.01
		ZnCl ₂	0.001	0.01
		Zn	<0.001	<0.01
		NH ₃	<0.001	<0.01
NGCS-2	Zinc Kettle Burner Stack	PM ₁₀	0.019	0.10
		VOC	0.014	0.06
		NO _x	0.250	1.11
		SO ₂	0.002	0.01
		CO	0.210	0.93
BGHSE-2	Zinc Kettle Baghouse Stack (18 Feet Kettle)	PM ₁₀	0.013	0.06
		NH ₄ Cl	0.009	0.04
		ZnO	0.002	0.01
		ZnCl ₂	0.001	0.01
		Zn	<0.001	<0.01
		NH ₃	<0.001	<0.01

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY
PRBLDG-RV1**	Powered Roof Vent Stack No. 1	PM ₁₀	0.044	0.19
		NH ₄ Cl	0.007	0.03
		ZnO	0.002	0.01
		ZnCl ₂	<0.001	<0.01
		Zn	<0.001	<0.01
		NH ₃	<0.001	<0.01
		H ₂ SO ₄ 0.021	0.09	
		ZnCl ₂ ·2NH ₄ Cl	0.005	0.02
		NaOH 0.005	0.02	
		VOC 0.002	0.01	
		NO _x	0.005	0.02
		SO ₂	<0.001	<0.01
		CO	0.034	0.15
PRBLDG-RV2**	Powered Roof Vent Stack No. 2	PM ₁₀	0.044	0.19
		NH ₄ Cl	0.007	0.03
		ZnO	0.002	0.01
		ZnCl ₂	<0.001	<0.01
		Zn	<0.001	<0.01
		NH ₃	<0.001	<0.01
		H ₂ SO ₄ 0.021	0.09	
		ZnCl ₂ ·2NH ₄ Cl	0.005	0.02
		NaOH 0.005	0.02	
		VOC 0.002	0.01	
		NO _x	0.005	0.02
		SO ₂	<0.001	<0.01
		CO	0.034	0.15

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY
BD-1**	Bay Door Fugitives (4)	PM ₁₀	0.029	0.13
		NH ₄ Cl	0.004	0.02
		ZnO	0.001	<0.01
		ZnCl ₂	<0.001	<0.01
		Zn	<0.001	<0.01
		NH ₃	<0.001	<0.01
		H ₂ SO ₄	0.014	
		NaOH	0.003	
		ZnCl ₂ ·2NH ₄ Cl	0.003	0.01
		VOC	0.002	
		NO _x	0.004	0.02
		SO ₂	<0.001	<0.01
		CO	0.023	0.10

(1) Emission point identification - either specific equipment designation or emission point number from a plot plan.

(2) Specific point source names. For fugitive sources, use an area name or fugitive source name.

(3) PM₁₀ - particulate matter (PM) 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.

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

NO_x - total oxides of nitrogen

SO₂ - sulfur dioxide

CO - carbon monoxide

NH₄Cl - ammonia chloride

ZnO - zinc oxide

ZnCl₂ - zinc chloride

Zn - zinc

NH₃ - ammonia

H₂SO₄ - sulfuric acid

NaOH - sodium hydroxide

ZnCl₂·2NH₄Cl - zinc ammonia chloride

(4) Fugitive emissions are an estimate only.

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

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

- ** The emissions from these three emission points consist of all the building fugitive emissions associated with the following facilities:

- Five sulfuric acid pickle tanks
- Five sulfuric acid pickle tank natural gas heaters
- One sodium hydroxide tank
- One sodium hydroxide tank natural gas heater
- One zinc ammonia chloride tank
- One zinc ammonia chloride tank natural gas heater
- Hood fugitives from the 14' kettle
- Hood fugitives from the 18' kettle

Seventy-five percent of these emissions are divided between PRBLDG-RV1 and PRBLDG-RV2; and 25 percent is allocated to the BD-1.

Dated December 27, 2002