

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit No. 47029

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**
TCS-A1	Scrubber CL-1401	HCl	0.1	0.03
TCS-A3	Scrubber CL-1403	HCl	<0.01	0.01
TCS-A4	Bag House BF-1201	PM (Si)	0.01	0.03
KBE/ABC-A	Scrubber CL-1001	VOC (AN)	0.02	0.03
		VOC (EtOH)	0.05	0.11
		VOC (PO)	0.01	0.02
		VOC (ACI)	0.02	0.05
		VOC (PO-HCl)	0.00	0.01
		VOC (from tanks)	0.10	0.01
ABC-A4	Scrubber CL-3202	VOC (EtOH)	0.02	0.07
		VOC(ACI)	0.07	0.25
		HCl 0.01	0.04	
ABC-A6	ABC Baghouses	PM (S)	<0.01	<0.01
		PM (Na ₂ S)	<0.01	<0.01
BOILER-A1 and A2	Boiler A1 and Boiler A2	NO _x	0.46	2.01
		CO 0.92	4.02	
		PM 0.01	0.06	
		VOC 0.05	0.23	
		SO ₂ 0.19	0.82	

INCINE-A1 and A2	Incinerator A1 and Incinerator A2		NO _x	0.9	3.93
			CO	1.34	5.87
		PM	0.26	1.14	
		VOC	0.22	0.44	
		SO ₂	0.04	0.18	
		HCl	0.59	0.35	
		Cl ₂	0.05	0.04	
CF-FUG	CF Fugitives		VOC (including HAPs)	2.07	9.08
			VOC (AN)	0.07	0.30
			VOC (EtOH)	0.68	2.96
			VOC (PO)	0.11	0.50
			VOC (ACI)	0.14	0.63
		NH ₃	0.02	0.09	
		HCl	0.08	0.34	
		HSiCl ₃		0.02	0.07
		SiCl ₄	0.07	0.33	
		NaOH	0.001	0.003	
TCS-FUG	Trichlorosilane Fugitives		HCl	0.09	0.38
			SiHCl ₃	0.95	4.14
		SiCl ₄	0.41	1.81	
		(SiHCl ₂) ₂ O		0.002	0.01
		Si	0.014	0.063	
		SiO ₂	0.001	0.004	
		NaOH	0.001	0.004	
		NaCl	0.000	0.001	
ULOADFUG	Loading/Unloading Fugitives		VOC	0.21	0.003
			HCl	0.04	0.002
			HSiCl ₃	0.001	<0.001
			SiCl ₄	0.001	<0.001
CTOWER	Cooling Tower		PM	<0.01	<0.01
			VOC	<0.01	

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(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) VOC - volatile organic compounds as defined in 30 Texas Administrative Code Section 101.1

NO_x - total oxides of nitrogen

SO₂ - sulfur dioxide

PM - particulate matter, suspended in the atmosphere, including PM₁₀.

PM₁₀ - 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.

CO - carbon monoxide

HCl - hydrogen chloride

AN - acrylonitrile

ACL - allylchloride

EtOH - ethanol

PO - propyleneoxide

PO-HCl - propylene oxide-hydrochloric acid complex

NH₃ - ammonia

Si - silicon

NaOH - sodium hydroxide

Na₂S - sodium sulfide

NaCl - sodium chloride

S - sulfur

CL₂ - chlorine

SiCl₄ - silicontetrachloride

HSiCl₃ - Trichlorosilane

HAPs - hazard air pollutants including AN, ACL, PO, and HCl.

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

_____Hrs/day _____Days/week _____Weeks/year or 8,760 Hrs/year

** Compliance with annual emission limits is based on a rolling 12-month period.

Dated _____