

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Number 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, 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	
			lbs/hour	TPY (4)
TCS-A1	Scrubber CL-1401	VOC	0.02	0.01
TCS-A3	Scrubber CL-1403	Allyl Chloride (ACI)	0.06	0.01
		Acrylonitrile (AN)	<0.01	<0.01
TCS-A5	Scrubber CL-1405	Acrylonitrile (AN)	<0.01	<0.01
		HCl	0.10	0.01
KBE/ABC-A	Scrubber CL-1001	Allyl Chloride (ACI)	0.31	0.01
		AN	0.03	<0.01
		EtOH	1.55	0.06
		MeOH	0.31	0.01
		PO	0.31	0.01
		NH3	0.31	0.01
		VOC	0.93	0.03
ABC-A4	Scrubber CL-3202	EtOH	0.15	0.07
		MeOH	0.08	0.03
		HCl	0.01	0.01
		PO	0.13	0.06
ABC-A6	Polysulfides Baghouses	PM	0.01	0.01
BOILER-A1	Boiler UN-7001	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

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TO-A1 or A2	Thermal Oxidizer UN-7051A or B	NO _x	0.90	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	Silane Plant Fugitives	VOC (includes speciated VOCs)	0.96	3.82
		AN	0.01	0.05
		EtOH	0.14	0.49
		PO	0.02	0.04
		PO-HCl	<0.01	<0.01
		ACl	0.01	0.05
		NH ₃	0.04	0.16
		HCl	0.21	0.84
		MeOH	0.25	1.03
		NaCl	<0.01	0.01
		Na ₂ S	<0.01	<0.01
		H ₂ S	0.01	0.06
ULOADFUG	Loading/Unloading Fugitives	VOC (includes speciated VOCs)	2.52	0.84
		Allyl Chloride (ACl)	0.05	<0.01
		Acrylonitrile (AN)	0.07	<0.01
		Ammonia (NH ₃)	<0.01	<0.01
		HCl	0.57	0.01
		H ₂ S	<0.01	0.01
BE-1	Refrigeration Unit BE-1	VOC	0.17	<0.01
CTOWER	Cooling Tower CT-6561A/B	PM	0.01	0.01
		VOC	0.01	0.01
F3-1	Scrubber CL-2501	VOC	0.17	0.20
F3-FUG	F3 Unit Fugitives (5)	VOC	0.17	0.67

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		HCl	0.01	0.04
ABC-A7	Scrubber CL-4101	EtOH	<0.01	<0.01
		MeOH	<0.01	<0.01
DRUMLOAD	Uncontrolled Drum/Tote Loading	VOC	8.44	0.80

(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

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

ACI - allyl-chloride

EtOH - ethanol

PO - propylene oxide

PO-HCl - propylene oxide-hydrochloric acid complex

NH₃ - ammonia

Si - silicon

SiO₂ - silicon dioxide

Cl₂ - chlorine

H₂S - hydrogen sulfide

Na₂S - sodium sulfide

MeOH - methyl alcohol

(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.

Date: July 2, 2015