

# EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Number 8865

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**
Bay 1 through 9, 11, 12, 14, 18, and 19	Tanks	VOC	647.30	14.85
Wharf 1 through 3, Barge 1 through 3	Ship and Barge Loading	VOC	432.00	5.73
TRL 1, 2, 2a, 3 through 9, 11, 14, 18, and 19	Tank Truck Loading	VOC	103.00	0.35
RCL A, AB, CD, EF, and GH	Rail Car Loading	VOC	103.00	1.40
SB-1	Boiler	NO <sub>x</sub>	4.80	21.00
		VOC	0.11	0.49
		CO	1.40	6.10
		SO <sub>2</sub>	0.57	2.50
		PM	0.55	2.40
SB-3	Boiler	NO <sub>x</sub>	1.10	4.60
		VOC	0.04	0.19
		CO	0.40	1.80
		SO <sub>2</sub>	0.14	0.63
		PM	0.01	0.05
FL-1	Operating Flare	VOC	99.10	9.12
		NO <sub>x</sub>	37.20	1.72
		CO	21.50	12.27
		SO <sub>2</sub>	1.00	4.40
		ETO	0.10	<0.01
		HCl/Br	20.00	6.00

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			lb/hr	TPY**

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			lb/hr	TPY**
FL-2	Breathing Flare (5)	VOC	38.10	1.63
		NO <sub>x</sub> 14.10	0.85	
		CO 8.30	5.10	
		SO <sub>2</sub> 1.00	4.40	
		HCl/Br	20.00	6.00
FL-3/FL-4	Propylene/Acetaldehyde Flare (6)	VOC		90.68
		5.99		
		NO <sub>x</sub> 17.65	1.45	
		CO 38.54	3.88	
		SO <sub>2</sub> 0.20	0.05	
TO-1	Thermal Oxidizer	VOC	3.00	5.50
		NO <sub>x</sub> 105.00	195.40	
		CO 30.00	55.20	
		SO <sub>2</sub> 20.00	24.00	
		PM 3.00	5.50	
		HCl/HBr	20.00	24.90
FU-1	Equipment Leak Fugitives (4)	VOC	3.95	11.89
FU-2	Line Clearing Fugitives (4)	VOC	4.50	0.18
FU-3	Methyl Chloride Hose Clearing Fugitives (4)	VOC	0.35	0.04
MCFU-1	Hose Clearing Fugitives (4)	VOC	0.07	0.18
ACETFUG	Acetaldehyde Fugitives (4)	VOC	0.09	0.41
F-1	Fuel Oil Storage	VOC	7.10	0.24
T-1	Transfer	Trichloro-trifluoroethane (Freon 113)	368.00	7.50

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T-2	Transfer	Paradichloro-benzene	<0.01	<0.01
T-3	Transfer	Freon 11	3.00	0.57
T-4	Transfer	Alkylbenzene	0.30	0.60
AB-1	Purge Gas Absorbers	VOC	<0.01	<0.01
AB-2	Transfer Absorbers	VOC	21.20	0.53

(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 Title 30 Texas Administrative Code § 101.1

IOC-U - inorganic compounds (unspeciated)

NO<sub>x</sub> - total oxides of nitrogen

SO<sub>2</sub> - sulfur dioxide

PM - particulate matter, suspended in the atmosphere, including PM<sub>10</sub>.

PM<sub>10</sub> - 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

HF - hydrogen fluoride

HBr - hydrogen bromide

HI - hydrogen iodide

NaOH - sodium hydroxide

(4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.

(5) This flare also includes the monoisopropyl amine ring.

(6) This flare also includes the acrylic acid and butyl acrylate ring.

\* 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 8760 Hrs/year

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Emission	Source	Air Contaminant	<u>Emission Rates *</u>	
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY**

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

Dated September 13, 2002