

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Numbers 3855B and PSDTX876

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)	<u>Emission Rates *</u>	
			lb/hr	TPY**
F-P01	VCM Production Fugitives (4)	VOC	0.89	3.88
		HCl	0.14	0.60
		VCM	0.68	3.00
		Cl ₂	0.01	0.05
F-P-13D	"D" Oxy-Chlorination Reactor Process Fugitives (4)	VOC	0.21	0.90
		HCl	0.08	0.35
F-P03B	Chlorine Unloading Fugitives (4)	Cl ₂	0.06	0.27
IND103	Cracking Furnace 103 (95 MMBTU/Hour)	PM ₁₀	0.71	2.45
		SO ₂	0.06	0.22
		NO _x	3.33	11.50
		CO	1.71	5.91
		VOC	0.51	1.76
IND104	Cracking Furnace 104 (95 MMBTU/Hour)	PM ₁₀	0.71	2.45
		SO ₂	0.06	0.22
		NO _x	15.11	47.30
		CO	1.24	3.90
		VOC	0.51	1.76
IND105	Cracking Furnace 105 (95 MMBTU/Hour)	PM ₁₀	0.71	2.45
		SO ₂	0.06	0.22
		NO _x	15.11	47.30
		CO	1.24	3.90
		VOC	0.51	1.76

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			lb/hr	TPY**
IND106	Cracking Furnace 106 (95 MMBTU/Hour)	PM ₁₀	0.71	2.45
		SO ₂	0.06	0.22
		NO _x	15.11	47.30
		CO	1.24	3.90
		VOC	0.51	1.76
IND107	Cracking Furnace 107 (95 MMBTU/Hour)	PM ₁₀	0.71	2.35
		SO ₂	0.06	0.21
		NO _x	5.32	17.50
		CO	1.33	3.90
		VOC	0.51	1.70
IND108	Cracking Furnace 108 (95 MMBTU/Hour)	PM ₁₀	0.71	2.35
		SO ₂	0.06	0.21
		NO _x	5.32	17.50
		CO	1.33	3.90
		VOC	0.51	1.70
IND101A	Incinerator A Scrubber	VOC	2.00	8.80
		NO _x	9.18	26.79
		CO	2.21	9.43
		CO (5)	50.00	
		SO ₂	0.10	0.40
		PM ₁₀	2.00	8.80
		HCl	2.08	8.83
		Cl ₂	4.00	17.50
		VCM	0.05	0.22
IND101B	Incinerator B Scrubber	VOC	2.00	8.80
		NO _x	9.18	26.79
		CO	2.21	9.43
		CO (5)	50.00	
		SO ₂	0.10	0.40
		PM ₁₀	2.00	8.80
		HCl	2.08	8.83
		Cl ₂	4.00	17.50
		VCM	0.05	0.22
CYC-1	Decoking Cyclone	CO	43.80	3.20

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EEDC-SUMP	East EDC Tank Farm Sump	EDC	<0.01	<0.01
EDCTF-SUMP	West EDC Tank Farm Sump	EDC	<0.01	<0.01
IM-SUMP	Intermediate Sump	EDC	<0.01	<0.01
LTC SUMP	LTC Sump	EDC	<0.01	<0.01
NO1-SUMP	No. 1 Sump	EDC	<0.01	<0.01
NO2-SUMP	No. 2 Sump	EDC	<0.01	<0.01
COXY-SUMP	C-Oxy Sump	EDC	<0.01	<0.01
EOXY-SUMP	E-Oxy Sump	EDC	<0.01	<0.01
HYDRO-SUMP	Hydroblast Pad Sump	EDC	<0.01	<0.01
HYDRO-WEIR	Hydroblast Pad Weir	EDC	0.14	0.62
		VCM	0.07	0.31
WW-1	Wastewater Treatment	EDC	0.17	0.42
		CHCl ₃	0.35	0.87
LAB-SUMP	Lab Sump	EDC	0.05	0.21
DEGREASER	Parts Degreaser	VOC	0.08	0.24
FB-6473	LOPS Tank	VOC	0.08	0.03
GT-1	Gasoline Storage Tank	Gasoline	44.23	1.13
DT-1-FWP	Diesel Storage Tank	Diesel	0.01	<0.01
DT-2-FWP	Diesel Storage Tank	Diesel	0.01	<0.01
DT-3-FWP	Diesel Storage Tank	Diesel	0.01	<0.01
DT-4-FWP	Diesel Storage Tank	Diesel	0.01	<0.01

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DT-5-FWP	Diesel Storage Tank	Diesel	0.01	<0.01
DT-6-UTIL	Diesel Storage Tank	Diesel	0.01	<0.01
DT-7-EG	Diesel Storage Tank	Diesel	0.01	<0.01
FA-4605	10 percent Hydrochloric Acid Tank	HCl	0.10	<0.01
FA-4609	10 percent Hydrochloric Acid Tank	HCl	0.10	<0.01
FA-4610	10 percent Hydrochloric Acid Tank	HCl	0.10	<0.01
FA-3204	10 percent Ethylene Glycol Tank	EG	0.10	<0.01
FB-6404	Sodium Hydroxide Tank	NaOH	0.49	0.07
FB-6480	Sodium Hydroxide Tank	NaOH	0.20	0.03
FB-6470	Solvent Storage Tank	VOC	25.74	0.96
COOLTWR	Cooling Tower	PM	<0.01	<0.01
		Cl ₂	0.91	4.00
COOLTWR-2	East Cooling Tower	PM	<0.01	<0.01
		Cl ₂	0.91	4.00

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- (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
 - HCl - hydrogen chloride
 - VCM - vinyl chloride monomer
 - Cl₂ - chlorine
 - PM - particulate matter, suspended in the atmosphere, including PM₁₀.
 - PM₁₀ - particulate matter less than 10 microns in diameter. Where PM is not listed, it shall be assumed that no PM greater than 10 microns is emitted.
 - SO₂ - sulfur dioxide
 - NO_x - total oxides of nitrogen
 - CO - carbon monoxide
 - EDC - ethylene dichloride
 - CHCL₃ - chloroform
 - NaOH - sodium hydroxide
 - EG - ethylene glycol
- (4) Emission rate is an estimate and compliance is demonstrated by meeting the requirements of the applicable special conditions and permit application representations.
- (5) Maintenance operations only. Emissions from these emission point numbers are only from these permitted facilities

* 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 April 29, 2010