

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Numbers 38755 and N016

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**
850FL-Q504	Flare (5)	CO	14.23	14.30
		NO _x	2.79	2.81
		VOC	38.50	23.73
		SO ₂	0.01	0.01
	Flare (6)	CO	21.35	3.07
		NO _x	2.96	0.43
		VOC	53.99	7.77
850TO-Q600	Regenerative Thermal Oxidizer	CO	0.50	2.19
		NO _x	0.90	3.94
		PM	0.02	0.09
		SO ₂	0.01	0.02
		VOC	1.97	3.63
850T-F140	Gerstine Oil Tank	VOC	0.11	0.02
850T-F406	Dillic Makeup Tank	VOC	0.10	0.10
850T-F409	Recycle Water Tank	VOC	0.05	0.20
850T-F364	Angelax Tank	MDPD	0.03	0.01
		VOC	0.13	0.01
850T-F225	Tributic Vent	VOC	9.23	2.82
850T-F207	Showic Vent	VOC	46.79	1.83

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			lb/hr	TPY**
856F	Finishing Building Fugitives	VOC	161.27	308.05
850F	Process Piping Fugitives (4)	HF	0.07	0.30
		SiCl ₄	0.01	0.01
		SnCl ₄	0.21	0.92
		VOC	5.32	23.30
832CT	Cooling Tower	VOC	1.26	5.52
850WF	Wastewater Fugitives	HF	0.01	0.01
		VOC	3.21	4.54
130FL-Q502	Utilities Flare (7)	CO	2.56	0.14
		NO _x	0.35	0.02
		VOC	7.42	0.42
280FL-Q504	Flare (8)	CO	2.85	0.20
		NO _x	0.40	0.03
		VOC	8.29	0.59
5A-202	Lime Neutralization Sump	SiCl ₄	0.02	0.01
		SnCl ₄	0.04	0.01
		VOC	3.11	0.18
850FUGSA	Bag Dump	PM	0.59	0.01

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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) CO - carbon monoxide
HF - hydrogen fluoride
MDPD - mixed diaryl p phenylene diamine
NO_x - total oxides of nitrogen
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 PM greater than 10 microns is emitted.
SiCl₄ - silicon tetrachloride
SnCl₄ - tin tetrachloride
SO₂ - sulfur dioxide
VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
- (4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.
- (5) Total allowable emissions, excluding start-up emissions.
- (6) Total allowable start-up emissions.
- (7) These emissions are for the Specialty Polymer Plant's (850 Unit) contribution to this flare which is permitted under Permit Number 22110.
- (8) These emissions are for the Specialty Polymer Plant's (850 Unit) contribution to this flare which is permitted under Permit Number 9481.

* 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

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

Date: April 20, 2009