

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)	Emission Rates	
			lb/hr	TPY
850FL-Q505	Flare	VOC	37.78	2.78
		NO _x	2.79	0.80
		CO	14.19	4.06
850TO-Q506	Regenerative Thermal Oxidizer 2.58	VOC		1.68
		NO _x	0.90	3.94
		CO	0.50	2.19
		PM	0.02	0.09
		SO ₂	0.01	0.02
850T-F140	Gerstine Oil Tank	VOC	0.01	0.01
850T-F406	Dillic Makeup Tank	VOC	0.10	0.10
850T-F409	Recycle Water Tank	VOC	0.01	0.01
850T-F364	Angelax Tank	VOC	0.03	0.01
		MDPD	<0.01	
850T-F225	Tributic Vent	VOC	22.43	0.86
850T-F207	Showic Vent	VOC	44.97	1.28
856F	Finishing Building Fugitives		VOC	
		146.10		261.59

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Emission * Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lb/hr	TPY
850F	Process Piping Fugitives (4) 10.95	VOC		2.50
		SnCl ₄	0.10	0.43
		HF	0.03	0.14
832CT	Cooling Tower	VOC	1.26	5.52
850WF	Wastewater Fugitives	VOC	3.33	4.89
130FL-Q502	Utilities Flare (5)	VOC	7.47	0.63
		NO _x	0.36	0.03
		CO	2.57	0.21
280FL-Q504	Flare (6)	VOC	8.29	0.54
		NO _x	0.40	0.03
		CO	2.85	0.19

(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 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

HF - hydrogen fluoride

SnCl₄ - tin tetrachloride

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

MDPD - mixed diaryl p phenylene diamine

- (4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.
- (5) These emissions are for the Specialty Polymer Plant's (850 Unit) contribution to this flare which is permitted under Permit No. 22110.
- (6) These emissions are for the Specialty Polymer Plant's (850 Unit) contribution to this flare which is permitted under Permit No. 9481.

* 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

Dated August 22, 2003