

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Number 7700

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 Rates *	Source	Air Contaminant	<u>Emission</u>	
Point No. (1)	Name (2)	Name (3)	lb/hr	
TPY				
SF-1/SF-1A	Smokeless Flare (5)(7)	NO _x	0.04	0.05
		CO	0.07	0.09
		VOC	0.16	0.19
		HCl	3.23	2.21
CY-1	Cylinders	VOC	0.31	0.01
BB-1	Block and Bleed System	VOC	1.65	1.22
TK-7	Heptane Tank (6)	VOC	9.47	0.83
TK-9	Hexane Tank	VOC	39.90	1.67
TK-13	Cyclohexane Tank	VOC	17.87	1.14
TK-94	Diesel Tank	VOC	0.09	0.02
ST-16	Dust Filter	PM ₁₀	0.01	0.01
F-U-F	Fugitives (4)	VOC	0.34	1.50

(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.

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- (3) VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
NO_x - total oxides of nitrogen
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
- (4) Emission rate is an estimate and compliance is demonstrated by meeting the requirements of the applicable special conditions and permit application representations.
- (5) Emission rates for EPNs SF-1 or SF-1A include only those related to the Magnesium Alkyl Unit. EPNs SF-1 or SF-1A are also used by facilities covered by Permit Numbers 1505, 1506, 1587, 2300, 8149, 19545, 24066, 33000, and 34028.
- (6) Emission rates for the tank include only those related to the Magnesium Alkyl Unit. This tank also used by facilities covered by Permit Number 34028.
- (7) EPN SF-1 will be operational only when flare EPN SF-1A is down for maintenance. The flares cannot be operated simultaneously. All emissions for EPN SF-1 are to be reported under EPN SF-1A for the Annual Emissions Inventory.

* 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

2009

Dated July 7,