

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Number 83831

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-1746MSS	Catalyst Changeout	PM	12.71	0.03
	Abrasive Blasting	PM	5.90	1.30
		PM ₁₀	1.40	0.31
	Tank Roof Landing and Clearing	VOC	3.09	0.14
		Benzene	1.28	0.08
		Cumene	3.09	0.07
		CO	0.60	0.33
		NO _x	0.72	0.39
	Frac Tanks	VOC	20.76	0.62
		Benzene	7.68	0.27
		Cumene	13.08	0.35
	Materials to Support Maintenance	VOC	10.98	2.75
		PM	2.84	0.71
		Methylene Chloride	0.38	0.09
	Instrument Clearing	VOC	0.48	0.04
	Vacuum Trucks	VOC	11.49	0.16
		Benzene	4.70	0.07
		Cumene	6.79	0.09
	Equipment Clearing to Atmosphere	VOC	66.40	0.39
		Benzene	13.27	0.23
		Cumene	65.54	0.12

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F-17- FLARE	Unit Start-up/Shutdown	VOC	1.70	0.08
		Benzene	1.07	0.05
		Cumene	0.32	0.02
		CO	0.66	0.03
		NO _x	0.09	0.01
	Equipment Clearing	VOC	354.9	0.61
		Benzene	77.15	0.14
		Cumene	100.75	0.31
		CO	128.8	0.22
		NO _x	17.83	0.03

- (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
 NO_x - total oxides of nitrogen
 CO - carbon monoxide
 PM - particulate matter, suspended in the atmosphere, including PM₁₀.
 PM₁₀ - particulate matter equal to or less than 10 microns in diameter

* 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 May 18, 2009