

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Number 4825A

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**
1	Benzene Tank T-1	VOC	1.46	3.95
2	Benzene/Cumene Tank T-2	VOC	0.85	2.14
3	Cumene Tank T-8	VOC	0.29	0.93
4	Cumene Tank T-10	VOC	0.42	0.93
5	Cumene Tank T-4	VOC	0.42	0.73
6	Cumene Tank T-5	VOC	0.42	0.73
7	Cumene Heavies Tank T-11	VOC	0.50	0.14
8	Cumene Heavies Tank T-12	VOC	0.37	0.14
9	Rerun Tank T-9	VOC	0.69	1.18
10	Storm Water Tank T-7	VOC	0.01	0.01
11	Flare	CO	0.67	2.95
		NO _x	0.34	1.48
		VOC	0.03	0.21
		SO ₂	0.01	
11-Maint	Flare- Maintenance/Start-up/ Shutdown	CO	5.79	0.28
		NO _x	34.39	1.65
		VOC	160.00	8.26

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY**
12	Heater (5)	CO	32.02	40.34
		NO _x	142.34	601.70
		PM	9.77	28.12
		SO ₂	41.42	181.42
		VOC	0.98	4.26
12	Heater (6)	CO	18.25	79.94
		NO _s	3.75	16.43
		PM	2.50	10.95
		SO ₂	4.25	18.62
		VOC	1.00	4.38
13	Marine Loading - Cumene Cumene Heavies	VOC	25.78	26.22
		VOC	3.75	0.39
14	Railcar Unloading	VOC	0.04	0.11
15	Truck Loading - Cumene Cumene Heavies	VOC	8.03	0.39
		VOC	1.17	0.05
16	Dock Sump	VOC	0.5	0.17
18	Cooling Tower CT-1	VOC	0.65	2.84
19	Benzene Tank T-14	VOC	0.21	1.16
20	Tank Truck Unloading	VOC	0.16	0.88
22	Cooling Tower CT-3	VOC	2.01	8.82
23	Cooling Tower CT-4	VOC	1.58	6.94
FU-1	Fugitives (4)	VOC	13.68	59.92

(1) Emission point identification - either specific equipment designation or emission point number from plot plan.

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- (2) Specific point source name. For fugitive sources use area name or fugitive source name.
- (3) CO - carbon monoxide
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 particulate matter greater than 10 microns is emitted.
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) These emission rates apply prior to installation of low NO_x burners.
- (6) These emission rates apply upon installation of low NO_x burners.

* 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

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

Dated September 16, 2004