

# EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit No. 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	1.89	3.99
2	Benzene/Cumene Tank T-2	VOC	1.02	2.12
3	Cumene Tank T-8	VOC	0.47	0.84
4	Cumene Tank T-10	VOC	0.47	0.84
5	Cumene Tank T-4	VOC	0.47	0.70
6	Cumene Tank T-5	VOC	0.47	0.70
7	Cumene Heavies Tank T-11	VOC	0.50	0.06
8	Cumene Heavies Tank T-12	VOC	0.37	0.10
9	Rerun Tank T-9	VOC	1.78	2.95
10	Fuel Oil Tank T-7	VOC	0.02	0.03
11	Flare	CO	1.00	4.39
		NO <sub>x</sub>	0.50	2.20
		VOC	0.45	1.98
12	Heater (5)	CO	32.02	40.34
		NO <sub>x</sub>	142.34	601.70
		PM 9.77	28.12	
		SO <sub>2</sub>	41.42	181.42
		VOC	0.98	4.26

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY**
12	Heater (6)	Acetone	0.12	0.53
		CO	7.75	33.95
		NO <sub>x</sub>	15.0	65.70
		PM	20.0	28.47
		PM <sub>10</sub>	14.25	19.71
		SO <sub>2</sub>	18.25	18.62
		VOC	0.50	2.19
13	Marine Loading - Cumene Cumene Heavies	VOC	25.81	20.10
		VOC	4.67	0.04
14	Railcar Unloading	VOC	0.04	0.16
15	Truck Loading - Cumene Cumene Heavies	VOC	8.04	0.46
		VOC	2.80	0.04
16	Dock Basin	VOC	0.02	0.10
17	Oily Water Separator	VOC	0.27	1.18
18	Cooling Tower CT-1	VOC	0.65	2.84
19	Benzene Tank T-14	VOC	0.56	1.21
20	Tank Truck Unloading	VOC	0.23	1.01
21	Cooling Tower CT-2	VOC	0.65	2.84
22	Cooling Tower CT-3	VOC	3.60	15.77
FUG	Fugitives (4)	VOC	13.25	58.02

(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

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- NO<sub>x</sub> - total oxides of nitrogen  
PM - particulate matter  
PM<sub>10</sub> - 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.  
SO<sub>2</sub> - sulfur dioxide  
VOC - volatile organic compounds as defined in 30 Texas Administrative Code Section 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 heater replacement start of operation.  
(6) These emission rates apply upon heater replacement start of operation.
- \* 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\_\_\_\_\_