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 lb/hr	Rates * TPY**
ROUTINE OPERATION	<u>DNS</u>			
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 NO _x VOC SO ₂	0.67 0.34 0.03 0.01	2.95 1.48 0.21 0.01
12	Heater	CO NO _x PM SO ₂	18.25 3.75 2.50 4.25	79.94 16.43 10.95 18.62
13	Marine Loading - Cumene	VOC VOC	1.00 34.84	4.38 25.52

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Emission	Source	Air Contaminant		Emission Rates *	
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY**	
	Cumene Heavies	VOC	5.84	0.04	
14	Railcar Unloading	VOC	0.04	0.11	
15	Truck Loading - Cumene Cumene Heavies	VOC VOC	10.86 9.88	0.38 0.05	
16	Dock Sump	VOC	0.50	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	16.33	71.54	
MAINTENANCE, STARTUP, AND SHUTDOWN (MSS) ACTIVITIES					
11a_Maint	Flare - MSS - Process Reactors (5)	CO NO _x VOC	5.79 34.39 160.00	0.28 1.65 8.26	
11b_Maint	Flare - MSS - Process Vessels (5)	CO NO _x VOC	1.60 0.22 7.41	(6) (6) (6)	
PTO_Maint	Portable Thermal Oxidizer - MSS (5)	CO NO_x VOC $PM_{10}/PM_{2.5}$ SO_2	45.00 77.92 25.29 4.20 0.01	(6) (6) (6) (6) (6)	
CMSS	Controlled MSS (5)	СО		0.71	

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Emission	Source	Air Contaminant	Emission Rates *	
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY**
		NO_x VOC $PM_{10}/PM_{2.5}$ SO_2		1.01 0.72 0.05 0.01
UNCMSS	Uncontrolled MSS (5)	VOC	236.90	4.25
12_Maint	Heater H-1 Startup/ Shutdown (5)	CO NO _x	373.99 28.89	59.39 3.91

- (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
 - 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 PM greater than 10 microns is emitted.
 - PM_{2.5} particulate matter equal to or less than 2.5 microns in diameter.
 - 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) Only one MSS activity may occur at any given time.
- (6) Annual emissions for EPNs 11b Maint and PTO Maint are included in EPN CMSS.
- * 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
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** Compliance with annual emission limits is based on a rolling 12-month period.