EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Number 18568

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	Source	Air Contaminant	<u> </u>	Emission Rates *	
Point No. (1)	Name (2) Name (3)		lb/hr	TPY**	
F-1343	1343 Unit Fugitives (4)	Benzene	0.40	1.74	
		Butadiene, 1,3-	0.25	1.11	
		Cumene	< 0.01	0.01	
		Ethyl Benzene	0.04	0.16	
		Hexane,	0.02	0.07	
		Toluene	0.08	0.36	
		Xylene,	0.04	0.19	
		Xylene, o-	0.03	0.13	
		Xylene, p-	0.03	0.11	
		VOC	0.47	2.03	
F-1743	1743 Unit Fugitives (4)	Benzene	0.03	0.11	
	5 (,)	Cyclohexane	0.33	1.45	
F-1749	1749 Unit Fugitives (4)	Benzene	0.95	4.18	
	3 ()	Butadiene, 1,3-	< 0.01	< 0.01	
		Cumene	0.01	0.04	
		Ethyl Benzene	0.03	0.11	
		Hexane,	0.06	0.25	
		Toluene	0.30	1.30	
		Xylene,	0.01	0.05	
		Xylene, o-	< 0.01	0.02	
		Xylene, p-	0.01	0.05	
		VOC	0.23	1.02	
E-01-1343	Process Heater PH-1	VOC	0.39	1.70	
	(72.13 MMBtu/hour)	NO_x	4.33	18.96	
	,	SO_2	1.82	7.98	
		PM	0.55	2.40	
		СО	5.33	23.34	

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AIR CONTAMINANTS DATA

Emission	Source	Air	Contaminant	Emission Rates *	
Point No. (1)	Name (2)		Name (3)	lb/hr	TPY**
E-02-1343	Process Heater PH-2 (48.09 MMBtu/hour)		VOC NO _x SO ₂ PM CO	0.26 2.89 1.12 0.37 3.55	1.14 12.64 4.89 1.60 15.56
E-07-1343	Process Heater PH-7 (72.13 MMBtu/hour)		VOC NO _x SO ₂ PM CO	0.39 4.33 1.82 0.55 5.33	1.70 18.96 7.98 2.40 23.34
E-08-1343	Process Heater PH-8	NO _x SO ₂ PM CO	VOC 4.32 4.07 0.89 8.86	0.65 18.92 8.22 3.92 38.82	2.83
CA-1	Carbon Adsorption Unit		Benzene	15.0	5.4
F-169-CT	Cooling Tower 169		VOC (5)	1.89	8.28

- (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) VOC volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1 excluding benzene, 1,3-butadiene; cumene, ethyl benzene, n-hexane, toluene, and xylenes (m-, o-, and p-) which are designated as hazardous air pollutants under § 112(b) of the Federal Clean Air Act

NO_x - total oxides of nitrogen

SO₂ - sulfur dioxide

PM - particulate matter, suspended in the atmosphere, including PM_{10} .

 PM_{10} - 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

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

(4)	allowable emissions rate.				
(5)	VOC emitted from Cooling Tower 169 may be comprised of isopentane, benzene,				
	cyclohexane, and/or heavy reformate.				
*	Emission rates are based on and the facilities are limited by the following maximum operating				
	schedule:				
	Hrs/dayDays/weekWeeks/year or <u>8,760</u> Hrs/year				
**	Compliance with the emission caps shall be based on a 12-month rolling average of emissions.				
	Dated 1.00 7 2002				
	Dated <u>June 7, 2002</u>				