

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit No. 390

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		Air Contaminant		<u>* Emission Rates</u>	
	Name (2)	Name (3)	lb/hr	TPY		
H-15	No. 1 Hydrotreater Reboiler Heater			VOC	0.13	0.6
				NO _x	1.31	5.7
				SO ₂	1.23	2.2
				PM ₁₀	0.33	1.4
				CO	0.92	4.0
H-16	Hydrotreater Reboiler Heater			VOC	0.05	0.24
				NO _x	1.54	6.74
				SO ₂	0.48	2.12
				PM ₁₀	0.36	1.58
				CO	0.36	1.58
H-18	No. 1 Reformer Charge Heater			VOC	0.86	3.8
				NO _x	8.74	38.3
				SO ₂	8.25	14.4
				PM ₁₀	2.19	9.6
				CO	6.14	26.9
H-34	No. 1 Reformer Stabilizer Reboiler Heater			VOC	0.08	0.4
				NO _x	2.40	10.5
				SO ₂	0.75	3.3
				PM ₁₀	0.56	2.5
				CO	0.56	2.5
H-45	No. 1 Hydrotreater Charge Heater			VOC	0.27	1.2
				NO _x	2.75	12.1
				SO ₂	2.60	4.6
				PM ₁₀	0.69	3.0
				CO	1.94	8.5
H-46	No. 1 Reformer Charge			VOC	0.42	1.8

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

AIR CONTAMINANTS DATA

Emission	Source	Air Contaminant	Emission Rates *		
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY	
	Heater		NO _x	4.23	18.5
			SO ₂	3.99	7.0
			PM ₁₀	1.06	4.6
			CO	2.97	13.0
V-18	No. 1 Reformer		CO	2.69	11.8
	Regeneration Vent		Cl ₂	0.30	0.8
F-8	No. 1 Hydrotreater		VOC	3.37	14.7
	Fugitives				
F-10	No. 1 Reformer Fugitives		VOC	6.73	29.5

- (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)
 - PM₁₀ - particulate matter less than 10 microns in diameter
 - VOC - volatile organic compounds as defined in General Rule 101.1
 - NO_x - total oxides of nitrogen
 - SO₂ - sulfur dioxide
 - CO - carbon monoxide
 - Cl₂ - chlorine
- (4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.

* Emission rates are based on and the facilities are limited by the following maximum operating schedule:

Hrs/day____Days/week____Weeks/year____or Hrs/year 8,760

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u>	
			lb/hr	TPY

Dated _____