

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

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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)	Name (3)	Air Contaminant lb/hr	TPY	<u>Emission Rates *</u>	
CASE I:						
Combined Natural Gas and Fuel Gas Firing						
8H-3	Crude Heater (37.5 MMBtu/hr)		NOx		2.08	9.12
			CO		.97	4.24
			VOC		.08	.33
			SO2		.75	.81
			PM		.08	.33
8H-4	Crude Heater (113 MMBtu/hr)		NOx		18.5	81.03
			CO		3.40	14.89
			VOC		.14	.61
			SO2		2.40	10.51
			PM		.41	1.79
8H-5	Vacuum Heater (46 MMBtu/hr)		NOx		4.69	20.54
			CO		1.17	5.12
			VOC		.19	.83
			SO2		.99	4.34
			PM		.17	.74

*Crude Heater (EPN 8H-3) lb/hr SO2 emissions are based on 160 ppmv of H2S and tpy SO2 emissions are based on 39.4 ppmv of H2S.

**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

CASE II:

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
No. 2 Fuel Oil Firing (720 Hours)				
8H-3	Crude Heater (37.5 MMBtu/hr)	NOx	6.84	2.46
		CO	1.71	.62
		VOC	.07	.03
		SO2	14.78	5.32
		PM	.68	.25
8H-4	Crude Heater (113 MMBtu/hr)	NOx	103.81	37.37
		CO	4.94	1.78
		VOC	.75	.27
		SO2	47.43	17.07
		PM	5.93	2.13
8H-5	Vacuum Heater (46 MMBtu/hr)	NOx	8.52	3.07
		CO	2.13	.77
		VOC	.085	.031
		SO2	18.42	6.63
		PM	.85	.31

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 720

CASE III:

MAXIMUM ALLOWABLE ANNUAL EMISSION RATES - No. 2 Fuel Oil Firing (720 Hours) and Combined Natural Gas and Fuel Gas Firing (8,040 Hours)

8H-3	Crude Heater (37.5 MMBtu/hr)	NOx	8.75	10.83
		CO	2.6	4.51
		VOC	.14	.33
		SO2	15.47	6.06
		PM	.75	.55
8H-4	Crude Heater (113 MMBtu/hr)	NOx		111.74
		CO		15.42

		VOC	.83
		SO2	26.72
		PM	3.78
8H-5	Vacuum Heater	NOx	21.92
	(46 MMBtu/hr)	CO	5.47
		VOC	.80
		SO2	6.37
		PM	.83

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- (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) PM - particulate matter
VOC - volatile organic compounds as defined in General Rule 101.1
NOx - total oxides of nitrogen
SO2 - sulfur dioxide
CO - carbon monoxide

Revised _____