

# EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit No. 6196

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*	
			lbs/hr	TPY
SVPS 4-1	Atmospheric C Heater	VOC	0.18	0.79
		NOx	8.40	36.79
		CO	5.09	22.29
		SO2	3.44	15.07
		PM10	0.64	2.80
SVPS 4-2	Atmospheric A Heater	VOC	0.30	1.09
		NOx	14.28	62.55
		CO	8.65	31.11
		SO2	5.86	21.01
		PM10	1.08	3.89
SVPS 4-3	Atmospheric B Heater	VOC	0.30	1.09
		NOx	14.28	62.55
		CO	8.65	31.11
		SO2	5.86	21.01
		PM10	1.08	3.89
SVPS 4-4	Naphtha Reboiler	VOC	0.15	0.53
		NOx	3.48	15.24
		CO	1.85	6.63
		SO2	1.42	5.12
		PM10	0.26	0.95
SVPS 4-5	Vacuum Heater A	VOC	0.23	0.82
		NOx	5.40	23.65
		CO	2.86	10.29
		SO2	2.21	7.95
		PM10	0.41	1.47
SVPS 4-6	Vacuum Heater B	VOC	0.23	0.82
		NOx	5.40	23.65
		CO	2.86	10.29
		SO2	2.21	7.95

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		PM10	0.41	1.47
SVPS 4-7	Common Heater Stack (5)	VOC	1.06	3.82
		NOx	39.36	172.40
		CO	23.02	82.80
		SO2	16.14	57.92
		PM10	2.98	10.72

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates*</u>	
			lbs/hr	TPY
FVPS4	VPS4 Fugitives (4)	VOC	0.98	4.28
FKVPS4	VPS4 Cooling Tower	VOC	1.11	0.41
FSEVPS	ARI Separator	VOC	2.40	10.51
EVPS4	Emergency Flare	**	**	**

- (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 General Rule 101.1  
NOx - total oxides of nitrogen  
CO - carbon monoxide  
SO2 - sulfur dioxide  
PM10 - particulate matter less than 10 microns in diameter
- (4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.
- (5) SVPS4-7 is a common heater stack which under normal conditions vents the combined emissions from VPS4-2, VPS4-3, VPS4-5, and VPS4-6.

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

\*\* Emergency use only.

Hrs/day\_\_\_\_Days/week\_\_\_\_Weeks/year\_\_\_\_or Hrs/year 8,760

Dated\_\_\_\_\_