

# EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit No. 8356

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		
B-004	Steam Boilers (5)			VOC	1.2	5.3
				NOx	50.3	220.0
				SO2	132.6	581.0
				PM10	11.4	49.9
				CO	6.0	26.3
B-005	Boiler SP-5			VOC	0.2	0.9
				NOx	2.8	12.4
				SO2	1.3	5.7
				PM10	0.4	1.5
				CO	2.4	10.7
B-006	Steam Boiler			VOC	0.4	1.9
				NOx	5.9	26.0
				SO2	3.9	12.1
				PM10	0.7	3.2
				CO	8.8	38.6
H-020	Isostripper Reboiler Htr			VOC	0.4	1.5
				NOx	14.6	63.9
				SO2	38.6	169.0
				PM10	3.3	14.4
				CO	1.7	7.5
F-2810	East Plt. Cooling Tower			VOC	1.5	6.44
F-0681	Oil/Water Separator			VOC	1.6	7.1
V-003	ATS Secondary Absorber			SO2	2.0	8.8
				H2S	0.1	0.4

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F-2200	Alky Splitter Fugitive (4)	VOC	0.9	3.9
F-2310	Amine Unit Fugitive (4)	VOC	1.1	4.6
F-2320	No. 1 SWRU Fugitive (4)	VOC	0.2	0.8

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	lb/hr	Emission Rates * TPY	
F-2330	ATS Unit Fugitive (4)	SO2		0.001	0.01
		H2S		0.02	0.09
		NH3		0.09	0.41
F-2410	FCC Fugitive (4)	VOC		5.3	23.4
F-2420	LPG Merox Fugitive (4)	VOC		1.3	5.5
F-2430	Cat Merox Fugitive (4)	VOC		1.1	4.7
F-2500	Alky Fugitive (4)	VOC		2.3	10.1
F-2800	East Plt. Boiler Fugitive (4)	VOC		0.4	1.6
FL-003 only	Emergency Flare	VOC		Emergency use	
		NOx			
		SO2			
		PM10			
		CO			

- (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

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NO<sub>x</sub> - total oxides of nitrogen

SO<sub>2</sub> - sulfur dioxide

PM<sub>10</sub>- particulate matter less than 10 microns in diameter

CO - carbon monoxide

H<sub>2</sub>S - hydrogen sulfide

NH<sub>3</sub> - ammonia

- (4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.
- (5) Two boilers venting through a common stack. Each boiler when operating alone is limited to emit 1/2 of the values shown.

\* 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

Dated\_\_\_\_\_