

Emission Sources - Maximum Allowable Emission Rates  
EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit No. 20246

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)	<u>Emission Rates *</u>	
			lb/hr	TPY
B-10	CO Boiler	NOx	202.0	639.0
		SO2	290.0	1270.0
		CO	142.0	198.0
		VOC	10.1	44.2
		PM10	34.8	152.0
		(Catalyst)		
		H2SO4	36.4	159.0
		(NH4)2SO4	15.2	66.6
		PM10 (total)	86.4	378.0
FH-2	FCC Charge Heater	NOx	4.2	18.4
		SO2	1.8	7.9
		CO	3.6	15.8
		VOC	0.2	0.8
		PM10	0.3	1.5
Flare-W	West Flare (5)	NOx	3.5	15.3
		SO2	1.5	6.6
		CO	19.8	86.7
		H2SO4	<0.1	0.3
		PM10	<0.1	0.3
		(total) H2S	<0.1	0.4
T1	Tank 1	VOC	2.5	4.1
T2	Tank 2	VOC	9.5	2.4
T101	Tank 101	VOC	9.4	0.9
T102	Tank 102	VOC	9.4	1.0

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T103	Tank 103	VOC	9.4	1.1
T111	Tank 111	VOC	9.4	1.1
T112	Tank 112	VOC	9.4	1.2
T113	Tank 113	VOC	9.4	1.0
T826	Tank 826	VOC	0.7	2.2

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	lb/hr	<u>Emission Rates *</u> TPY	
T808	Tank 808			VOC	3.6 1.2
T810	Tank 810			VOC	3.3 1.4
T811	Tank 811			VOC	3.2 1.5
T812	Tank 812			VOC	3.3 1.3
T818	Tank 818			VOC	2.9 1.9
F-PFCC	Fugitive (4)			VOC	13.6 59.7
F-POWS-1	Oil/Water Separator (5)			VOC	0.8 3.5
FCC-V1	Fresh Catalyst Cyclone			PM10	46.0 2.2
FCC-V2	Spent Catalyst Cyclone			PM10	50.0 0.9
P-PFCC	Fugitive (4)			PM10	1.6 0.1

- (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  
 SO2 - sulfur dioxide  
 CO - carbon monoxide  
 PM10 - particulate matter less than 10 microns  
 H2SO4 - sulfuric acid  
 (NH4)2SO4 - ammonium sulfate  
 H2S - hydrogen sulfide
- (4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable rate.
- (5) Emission estimates represent FCC facilities' contributions only and do not represent total source emissions.

\* 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

Dated \_\_\_\_\_