EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

C-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	Source	Air Contaminant	Emiss	ion Rates*		
Point No. (1)	Name (2)	Name (3)	#/hr	TPY		
B-10		CO Boiler		NOx SO2 CO VOC	202.0 290.0 142.0 10.1	639.0 1270.0 198.0 44.2
				PM ₁₀ (Catalyst) H2SO4 (NH4)2SO4 PM ₁₀ (total)	34.8 36.4 15.2 86.4	152.0 159.0 66.6 378.0
FH-2		FCC Charge Heater		NOx SO2 CO VOC PM ₁₀	4.2 1.8 3.6 0.2 0.3	18.4 7.9 15.8 0.8 1.5
Flare-W		West Flare (5)		NOx SO2 CO H2SO4 PM ₁₀ (total) H2S	3.5 1.5 19.8 <0.1 <0.1	15.3 6.6 86.7 0.3 0.3
T1		Tank 1		VOC	2.5	4.1
T206		Tank 206		VOC	5.6	2.9
T204		Tank 204		VOC	9.4	1.5
T2		Tank 2		VOC	9.5	2.4

T101	Tank 101	VOC	9.4	0.9
T102	Tank 102	VOC	9.4	1.0
T103	Tank 103	VOC	9.4	1.1

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Emission	Source Air Cor	taminant <u>Emission Rates*</u>		
Point No. (1)	Name (2) Na	me (3) #/hr TPY		
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
T207	Tank 207	VOC	11.6	2.6
T307	Tank 307	VOC	7.2	3.9
T308	Tank 308	VOC	14.2	3.1
T820	Tank 820	VOC	0.2	0.3
T202	Tank 202	VOC	0.1	0.1
T203	Tank 203	VOC	0.2	0.1
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	S-1 Oil/Water Se	eparator (5) VOC	0.8	3.5
FCC-V1	Fresh Cataly	yst Cyclone PM ₁₀	46.0	2.2
FCC-V2	Spent Catal	yst Cyclone PM ₁₀	50.0	0.9
F-PFCC	Fugitive (4)	PM ₁₀	1.6	0.1

- Emission point identification either specific equipment designation or emission point number from plot plan.

 Specific point source name. For fugitive sources use area name or fugitive source name. (1)
- (2)

(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

H2S - hydrogen sulfide

- (4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission 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 <u>8760</u>
1 11 3/ GGy	Dayorvock		OI I II 3/ y C C C C C C C C C C C C C C C C C C