

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES  
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Permit No. 21261

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		Emission Rates *	
	Name (2)	Name (3)	lb/hr	TPY		
HH-101	Diesel Reactor Heater			NOx	3.92	17.17
				CO	3.33	14.59
				SO2	1.35	5.91
				VOC	0.16	0.70
				PM10	0.41	1.80
HH-102	Diesel Stripper Reboiler			NOx	2.29	10.03
				CO	1.94	8.50
				SO2	0.79	3.46
				VOC	0.09	0.39
				PM10	0.29	1.27
HH-201	Gas Oil Reactor Heater			NOx	2.42	10.60
				CO	2.05	8.98
				SO2	0.83	3.64
				VOC	0.10	0.44
				PM10	0.30	1.31
B-14	Boiler No. 14			NOx	12.60	55.19
				CO	10.69	46.82
				SO2	4.33	18.97
				VOC	0.87	3.81
				PM10	0.87	3.81
TI-A&B	SRU Incinerator			NOx	13.62	29.83
				CO	10.78	23.61
				SO2	7.06	30.92
				H2SO4	1.08	4.74
				VOC	0.65	2.85
				PM10	0.10	0.44
				H2S	0.50	2.19

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T67	TK67	VOC	23.7	7.44
T68	TK68	VOC	23.7	4.90
T204	TK204	VOC	5.63	2.50
T205	TK205	VOC	5.63	2.50
T207	TK207	VOC	7.03	3.17

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	lb/hr	<u>Emission Rates *</u> TPY	
T307	TK307			VOC	7.90 3.57
T308	TK308			VOC	7.90 3.57
T820	TK820			VOC	1.75 0.59
F-AR-A&B	Amine Regen. Fugitives(4)			H2S	0.01 0.04
				VOC	0.12 0.53
F-SRU-A&B	SRU A&B Fugitives(4)			VOC	0.09 0.39
				H2S	0.01 0.04
				SO2	<0.01 <0.01
F-DH	Dist. Hydro Fugitives(4)			VOC	0.43 1.89
F-PCTW-3	MTBE Cooling Tower(5)			VOC	0.38 1.66

- (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  
H2SO4 - sulfuric acid  
H2S - hydrogen sulfide  
NOx - nitrogen oxides  
SO2 - sulfur dioxide  
PM10 - particulate matter less than 10 microns in diameter  
CO - carbon monoxide
- (4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emissions rate.
- (5) These emissions represent only the Distillate Hydrotreater project's contribution.
- \* 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 \_\_\_\_\_