

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

20042

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>	
			#/hr	TPY
H-101	Charge Heater (180 MMBtu/hr Heat Input)	CO	4.95	21.69
		H2S	0.09	0.07
		NOx	10.40	45.60
		PM10	0.619	2.71
		SO2 (7)	34.15	25.32
		VOC (5)	0.474	2.08
K-101	Gas Turbine Start-up Bypass Stack (6)	CO	171.00	12.83
		H2S	0.09	<0.01
		NOx	50.00	3.75
		SO2	34.15	2.56
		VOC	19.00	1.43
U-101	Dehydrogenation Heat Recovery Unit	CO	13.70	60.00
		H2S	0.09	0.07
		NH3	5.50	24.10
		NOx	6.80	30.00
		PM10	0.10	0.64
		SO2 (7)	34.15	24.99
U-5001	Steam Boiler (35 MMBtu/hr Heat Input)	VOC	6.00	26.30
		CO	1.09	4.77
		NOx	2.62	11.46
		PM10	0.094	0.410
		SO2	0.019	0.082
U-5041	Cooling Towers (4)	VOC	0.087	0.380
		VOC	0.71	3.12
B-5031	Flare	EMERGENCY USE ONLY		
TK-5026A	Storage Tank	MTBE	0.62	1.39

TK-5026B	Storage Tank	MTBE	0.62	1.39
F-101	Process Fugitives (4)	VOC	1.30	5.70
F-201, 403-406	Process Fugitives (4)	VOC	1.47	6.43

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- (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) CO - carbon monoxide
NH₃ - ammonia
H₂S - hydrogen sulfide
NO_x - total oxides of nitrogen
PM₁₀ - particulate matter less than 10 microns
SO₂ - sulfur dioxide
MTBE - methyl-tertiary-butyl ether
VOC - volatile organic compounds as defined in General Rule 101.1
- (4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.
- (5) Includes products of fuel combustion and offgases from the process.
- (6) Start-up bypass vent for 150 hours per calendar year.
- (7) The SO₂ emissions shall comply with Special Provision No. 21.

* 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

Revised_____