

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Number 5214

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>	
			<u>lb/hr</u>	<u>TPY</u>
EXH-1	Compressor Exhaust	VOC	2.82	11.12
		NO _x	52.91	208.58
		SO ₂	0.02	0.06
		CO	22.33	88.12
STACK-1 and STACK-2	Heater Exhaust Stack 1 and Stack 2 (5)	VOC	0.05	0.23
		NO _x	0.95	4.16
		SO ₂	0.01	0.03
		CO	0.80	3.50
		PM	0.07	0.32
STACK-3 and STACK-4	Reboiler No. 2 Exhaust Stack 1 and Stack 2 (5)	VOC	0.01	0.05
		NO _x	0.20	0.88
		SO ₂	<0.01	0.01
		CO	0.17	0.74
		PM	0.02	0.07
STACK-5	Reboiler No. 1 Exhaust Stack	VOC	0.01	0.05
		NO _x	0.20	0.88
		SO ₂	<0.01	0.01
		CO	0.17	0.74
		PM	0.02	0.07
STACK-6	Heater Treater Exhaust Stack	VOC	<0.01	0.02
		NO _x	0.08	0.34
		SO ₂	<0.01	<0.01
		CO	0.07	0.28
		PM	0.01	0.03
LD-1	Still Water Loading	VOC	0.03	0.03
TK-2	Still Overhead	VOC	3.39	0.45

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			lb/hr	TPY
	Storage Tank			
TK-5	Crude Oil Storage Tank	VOC	1.41	23.72
TK-6	Crude Oil Storage Tank	VOC	1.41	23.72
TK-7	Crude Oil Storage Tank	VOC	1.41	23.72
TK-8	Crude Oil Storage Tank	VOC	1.41	23.72
TK-9	Salt Water Storage Tank	VOC	0.43	1.26
VENT-1	Heater Treater Vent	VOC	0.57	2.48
F-COMP-1	Compressor Fugitives	VOC	0.05	0.21
F-CONT-1	Dehydration Contactor Fugitives (4)	VOC	0.02	0.10
F-HEAT-1	Heater Fugitives	VOC	0.01	0.06
F-HT-1	Heater Treater Fugitives (4)	VOC	0.01	0.06
F-MTR-1	Meter Fugitives (4)	VOC	<0.01	<0.01
F-REB-1	Reboiler No. 1 Fugitives (4)	VOC	0.04	0.19
F-REB-2	Reboiler No. 2 Fugitives (4)	VOC	0.04	0.19
F-REG-1	1st Cut Regulator Fugitives (4)	VOC	0.01	0.06
F-REG-2	2nd Cut Regulator Fugitives (4)	VOC	0.01	0.06

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u>	
			lb/hr	TPY
F-WDGAS-1	Well Line Fugitives (4)	VOC	0.01	0.06
F-WDGAS-2	3rd Cut Regulator Fugitives (4)	VOC	0.01	0.03
F-SDGAS-1	Compressor Suction and Fuel Gas Fugitives (4)	VOC	0.04	0.17
F-SEP-1	Separator Area Fugitives (4)	VOC	<0.01	<0.01
F-TK-1	Methanol Storage Tank Fugitives (4)	VOC	0.25	1.12
F-TK-2	Water Storage Tank Fugitives (4)	VOC	0.03	0.12
F-TK-3	Lube Oil Storage Tank Fugitives (4)	VOC	0.21	0.91
F-TK-4	Engine Water Jacket Fugitives (4)	VOC	0.21	0.91
F-TK-5, 6, 7, and 8	Crude Oil Storage Tanks Fugitives (4)	VOC	0.04	0.15
F-TK-9	Salt Water Storage Tank Fugitives (4)	VOC	0.01	0.03

- (1) Emission point identification - either specific equipment designation or emission point number from a plot plan.
(2) Specific point source names. For fugitive sources use area name or fugitive source name.

- (3) PM - particulate matter, suspended in the atmosphere, including PM₁₀
PM₁₀ - particulate matter equal to or less than 10 microns in diameter. Where PM is not listed, it shall be assumed that noPM greater than 10 microns is emitted.
VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
NO_x - total oxides of nitrogen
SO₂ - sulfur dioxide
CO - carbon monoxide
- (4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.
- (5) The combined emissions from EPNs STACK-1 and STACK-2 shall not exceed the total Heater Exhaust emission limits established in this table.

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The combined emissions from EPNs STACK-3 and STACK-4 shall not exceed the total Reboiler No. 2 Exhaust emission limits established in this table.

- * 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 February 18, 2005