

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit No. 20485

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 Rates *	Source	Air Contaminant	Emission	
			lb/hr	TPY
Point No. (1)	Name (2)	Name (3)		
1	North Flare	VOC	0.21	0.03
		1, 3 - Butadiene	0.29	0.46
		NO _x	0.50	0.22
		CO	0.37	1.62
2	South Flare	VOC	26.22	1.06
		1, 3 - Butadiene	0.34	0.46
		NO _x	0.08	0.22
		CO	0.55	1.70
3	Dock Flare	VOC	33.84	12.56
		1, 3 - Butadiene	45.79	8.23
		NO _x	16.44	4.24
		CO	60.92	29.14
UW6BB1&2	Boilers 1 and 2	PM ₁₀	8.50	33.70
		VOC	1.70	6.70
		NO _x	528.00	2072.00
		SO ₂	18.60	73.00
		SO ₃	1.50	5.60
		CO	170.00	438.00
UW6BB7	Boiler 7 (pre burner change)	PM ₁₀	4.40	14.10
		VOC	1.20	3.80
		NO _x	379.30	1213.00
		SO ₂	6.50	20.40
		SO ₃	0.50	1.60

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Emission *	Source	Air Contaminant	<u>Emission Rates</u>	
<u>Point No. (1)</u>	<u>Name (2)</u>	<u>Name (3)</u>	<u>lb/hr</u>	<u>TPY</u>
		CO	85.00	115.00

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Emission * Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lb/hr	TPY
UW6BB7	Boiler 7 (post burner change)	PM ₁₀	4.40	14.1
		VOC	1.20	3.80
		NO _x	170.00	543.65
		SO ₂	6.50	20.40
		SO ₃	0.50	1.60
		CO	18.38	57.77
BDMTS3BA	Air Heater	PM ₁₀	0.06	0.09
		VOC	0.06	0.09
		NO _x	1.40	2.12
		SO ₂	0.17	0.17
		CO	0.35	0.53
BDMTS3F105	Regeneration Stack	NO _x	<0.01	<0.01
		CO	0.36	0.54
C4CT	Cooling Tower	VOC	46.30	50.67
		1, 3 - Butadiene	37.57	41.43
6-TK-43	Storage Tank 43	VOC	15.15	1.44
6-TK-44	Storage Tank 44	VOC	15.15	1.44
6-TK-48	Storage Tank 48	VOC	0.57	<0.01
6-TK-72	Storage Tank 72	VOC	0.57	<0.01
6-TK-73	Storage Tank 73	VOC	0.57	<0.01
PATTK1470	MTBE Tank	VOC	7.82	8.00
PNTTK1815	Methanol Tank	VOC	1.12	4.90

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<u>Point No. (1)</u>	<u>Name (2)</u>	<u>Name (3)</u>	<u>lb/hr</u>	<u>TPY</u>

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Emission * Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lb/hr	TPY
C4BUND	Bundle Furnace	PM ₁₀	1.00	4.38
		VOC	<0.01	<0.01
		NO _x	0.15	0.09
		SO ₂	<0.01	<0.01
		CO	0.04	0.02
C4FUG	Fugitives	VOC	13.24	58.00

(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) PM₁₀ - particulate matter (PM) less than 10 microns in diameter. Particulate matter equal to or less than 10 microns in diameter. Where PM is not listed, it shall be assumed that no particulate matter greater than 10 microns is emitted.

VOC - volatile organic compounds as defined in 30 Texas Administrative Code Section 101.1

NO_x - total oxides of nitrogen

SO₂ - sulfur dioxide

SO₃ - sulfur trioxide

CO - carbon monoxide

(4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.

The individual tons per year (TPY) emission rates for each storage tank may be exceeded by such tank so long as the aggregate emissions from all storage tanks do not exceed 145.96 TPY.

* Emission rates are based on and the facilities are limited by the following maximum operating schedule:

Hrs/day 24 Days/week 7 Weeks/year 52 or Hrs/year _____