

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Number 19624

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>	
			lb/hr	TPY**
H-1	Hot Oil Heater (30.72 MMBtu/hr heat input)	NO _x	0.98	4.31
		CO	2.46	10.76
		VOC	0.16	0.70
		SO ₂	0.02	0.08
		PM ₁₀	0.22	0.97
H-2	Boiler 1 (5.2 MMBtu/hr heat input)	NO _x	0.50	2.17
		CO	0.42	1.82
		VOC	0.03	0.12
		SO ₂	0.01	0.01
		PM ₁₀	0.04	0.16
FL-1	Flare (air assisted)	NO _x	0.32	0.29
		CO	2.75	2.61
		VOC	3.13	4.13
FL-1 MSS	Flare MSS	NO _x	0.22	0.04
		CO	1.82	0.29
		VOC	7.29	0.77
FUG-1	Fugitives (4)	VOC	3.68	16.12
FUG-MSS	MSS Atmosphere	VOC	13.71	1.10
L-1	Heavy Ends Loading	VOC	0.51	0.04
L-2	Heavy Ends Loading	VOC	0.50	0.03
T-1	Storage Tanks	VOC	1.14	0.24

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H-3	Furnace (25.4 MMBtu/hr heat input)	NO _x	1.52	6.68
		CO	2.00	8.75
		VOC	0.13	0.57
		SO ₂	0.01	0.06
		PM ₁₀	0.18	0.79
H-4	Boiler 2 (36.5 MMBtu/hr heat input)	NO _x	2.19	9.60
		CO	2.92	12.79
		VOC	0.19	0.84
		SO ₂	0.02	0.09
		PM ₁₀	0.26	1.16
H-5	Boiler 3 (36.4 MMBtu/hr heat input)	NO _x	1.16	5.10
		CO	2.91	12.75
		VOC	0.19	0.84
		SO ₂	0.02	0.09
		PM ₁₀	0.26	1.16
FUG-2	Fugitives (4)	VOC	2.48	10.88
FL-2	Flare (steam assisted)	NO _x	0.93	1.35
		CO	4.47	9.65
		VOC	14.88	9.40
		SO ₂	0.01	0.03
FL-2 MSS	Flare MSS	NO _x	0.26	0.01
		CO	2.22	0.09
		VOC	7.16	0.31
CT-1	Cooling Tower (5)	VOC	0.01	0.01
CT-2	Cooling Tower (5)	VOC	0.41	1.80
CT-3	Cooling Tower (5)	VOC	0.01	0.01
CT-5	Cooling Tower (5)	PM	0.39	1.71
		VOC	0.15	0.64
H-6	Furnace (25.4 MMBtu/hr heat	NO _x	0.80	3.50
		CO	2.00	8.75

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	input)	VOC	0.13	0.57
		SO ₂	0.01	0.06
		PM ₁₀	0.18	0.79
H-7	Boiler 4	NO _x	1.27	5.58
	(39.8 MMBtu/hr heat	CO	3.18	13.95
	input)	VOC	0.21	0.91
		SO ₂	0.02	0.10
		PM ₁₀	0.29	1.26
H-8	Boiler 8	NO _x	1.16	5.09
	(38.1 MMBtu/hr heat	CO	3.05	13.35
	input)	VOC	0.20	0.87
		SO ₂	0.03	0.10
		PM ₁₀	0.28	1.21
CT-4	Cooling Tower (5)	VOC	0.41	1.80
FUG-3	Fugitives (4)	VOC	2.03	8.90

(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 an area name or fugitive source name.

(3) Exempt Solvent - Those carbon compounds or mixtures of carbon compounds used as solvents which

have been excluded from the definition of volatile organic compound.

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

NO_x - total oxides of nitrogen

SO₂ - sulfur dioxide

PM - particulate matter, suspended in the atmosphere, including PM₁₀ and PM_{2.5}

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

CO - carbon monoxide

- (4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.
- (5) Emission rate is an estimate and is enforceable through compliance with the applicable special condition(s) and permit application representations.

* 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

** Compliance with annual emission limits is based on a rolling 12-month period.

Date: May 27, 2011