

# 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)	Emission Rates*	
			lb/hr	TPY**
H-1	Hot Oil Heater (30.72 MMBtu/hr heat input)	NO <sub>x</sub>	3.60	15.81
		CO	2.46	10.75
		VOC	0.16	0.70
		SO <sub>2</sub>	0.03	0.11
		PM <sub>10</sub>	0.59	2.61
H-2	Boiler 1 (5.2 MMBtu/hr heat input)	NO <sub>x</sub>	0.50	2.17
		CO	0.42	1.82
		VOC	0.03	0.12
		SO <sub>2</sub>	0.01	0.01
		PM <sub>10</sub>	0.04	0.16
FL-1	Flare	NO <sub>x</sub>	0.32	0.28
		CO	2.72	2.43
		VOC	3.03	3.69
		SO <sub>2</sub>	0.01	0.01
		PM <sub>10</sub>	0.01	0.01
FUG-1	Fugitives (4)	VOC	3.33	14.58
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	12.85	2.30

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			lb/hr	TPY**
H-3	Furnace (25.4 MMBtu/hr heat input)	NO <sub>x</sub>	1.52	6.68
		CO	2.00	8.75
		VOC	0.13	0.57
		SO <sub>2</sub>	0.01	0.06
		PM <sub>10</sub>	0.18	0.79
H-4	Boiler 2 (37.8 MMBtu/hr heat input)	NO <sub>x</sub>	2.25	9.86
		CO	3.00	13.14
		VOC	0.20	0.86
		SO <sub>2</sub>	0.02	0.09
		PM <sub>10</sub>	0.27	1.20
H-5	Boiler 3 (34.8 MMBtu/hr heat input)	NO <sub>x</sub>	1.11	4.88
		CO	2.78	12.19
		VOC	0.18	0.80
		SO <sub>2</sub>	0.02	0.09
		PM <sub>10</sub>	0.25	1.10
FUG-2	Fugitives (4)	VOC	2.48	10.88
FL-2	Flare	NO <sub>x</sub>	0.51	0.34
		CO	2.62	1.71
		VOC	7.89	3.42
		SO <sub>2</sub>	0.01	0.01
		PM <sub>10</sub>	0.01	0.01
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
H-6	Furnace	NO <sub>x</sub>	0.80	3.50

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates*	
			lb/hr	TPY**
	(37.8 MMBtu/hr heat input)	CO	2.00	8.75
		VOC	0.13	0.57
		SO <sub>2</sub> 0.01	0.06	
		PM <sub>10</sub> 0.18	0.79	
H-7	Boiler 4	NO <sub>x</sub>	1.21	5.30
	(37.8 MMBtu/hr heat input)	CO	3.00	13.14
		VOC	0.20	0.86
		SO <sub>2</sub> 0.02	0.09	
		PM <sub>10</sub> 0.27	1.20	
H-8	Boiler 5	NO <sub>x</sub>	1.11	4.88
	(34.8 MMBtu/hr heat input)	CO	2.78	12.19
		VOC	0.18	0.80
		SO <sub>2</sub> 0.02	0.09	
		PM <sub>10</sub> 0.25	1.10	
FL-3	Flare	NO <sub>x</sub>	0.51	0.34
		CO	2.62	1.71
		VOC	7.89	3.42
		SO <sub>2</sub> 0.01	0.01	
		PM <sub>10</sub> 0.01	0.01	
CT-4	Cooling Tower (5)	VOC	0.41	1.80
FUG-3	Fugitives (4)	VOC	2.48	10.88

(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.

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- (3) NO<sub>x</sub> - total oxides of nitrogen  
CO - carbon monoxide  
VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1  
SO<sub>2</sub> - sulfur dioxide  
PM<sub>10</sub> - particulate matter (PM) 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.
- (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 8,760 Hrs/year

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

Dated July 7, 2005