

# EMISSION SOURCES - EMISSION CAPS AND INDIVIDUAL EMISSION LIMITATIONS

Flexible Permit Number 74485

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**

### HOURLY EMISSION RATE FOR EACH HEATER DURING NORMAL OPERATIONS

001, 002, 003, 004, 005, 006, 007, and 008 2.05 418.9 MMBtu/hr each	Heaters 1 through 8 Natural Gas-Fired Water Heaters	NO <sub>x</sub>	1.55	-
		CO	-	-
		VOC	1.55	-
		SO <sub>2</sub>	5.54	-
		PM <sub>10</sub>	3.14	-
		NH <sub>3</sub>	2.01	-

### HOURLY EMISSION RATE FOR EACH HEATER DURING START-UP OR SHUTDOWN (6)

001, 002, 003, 004, 005, 006, 007, and 008 3.06 418.9 MMBtu/hr each	Heaters 1 through 8 Natural Gas-Fired Water Heaters	NO <sub>x</sub>	14.66	-
		CO	-	-
		VOC	2.26	-
		SO <sub>2</sub>	5.54	-
		PM <sub>10</sub>	3.14	-
		NH <sub>3</sub>	2.01	-

### COMBINED ANNUAL EMISSION RATE CAP FOR ALL 8 HEATERS

001 through 008 Combined	Heaters 1 through 8 Natural Gas-Fired Water Heaters 25,686,948 MMBtu/yr combined	NO <sub>x</sub>	-	47.53
		CO	-	62.93
		VOC	-	47.53
		SO <sub>2</sub>	-	17.01
		PM <sub>10</sub>	-	96.32
		NH <sub>3</sub>	-	56.07

## EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

## AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY**
009 and 010 Each (4)	Standby Generators natural gas-fired approximately 2,107-hp	NO <sub>x</sub>	2.32	-
		CO	10.49	-
		VOC	5.09	-
		SO <sub>2</sub>	0.02	-
		PM <sub>10</sub>	0.14	-
009 and 010 (4) Combined Annual	Standby Generators natural gas-fired approximately 2,107-hp	NO <sub>x</sub>	-	0.24
		CO	-	1.05
		VOC	-	0.52
		SO <sub>2</sub>	-	<0.01
		PM <sub>10</sub>	-	0.02
011, 012, and 013 Each (4)	Diesel Firewater Pump Engines Freshwater Pumps approximately 150-hp	NO <sub>x</sub>	2.97	-
		CO	0.83	-
		VOC	0.05	-
		SO <sub>2</sub>	0.33	-
		PM <sub>10</sub>	0.14	-
011, 012 and 013 (4) Combined Annual	Diesel Firewater Pump Engine Freshwater Pump approximately 150-hp	NO <sub>x</sub>	-	0.45
		CO	-	0.12
		VOC	-	0.01
		SO <sub>2</sub>	-	0.06
		PM <sub>10</sub>	-	0.03
014 and 015 Each (4)	Diesel Firewater Pump Engines Intake Saltwater Pumps approximately 125-hp	NO <sub>x</sub>	2.88	-
		CO	0.56	-
		VOC	0.06	-
		SO <sub>2</sub>	0.28	-
		PM <sub>10</sub>	0.10	-
014 and 015 (4) Combined Annual	Diesel Firewater Pump Engines Intake Saltwater Pumps approximately 125-hp	NO <sub>x</sub>	-	0.29
		CO	-	0.06
		VOC	-	<0.01

## EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

## AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY**
		SO <sub>2</sub> -	0.03	
		PM <sub>10</sub> -	0.02	
FUG001 (5)	Fugitive - Process Area	VOC	0.20	0.88
		NH <sub>3</sub> 0.01	0.03	
FUG002 (5)	Fugitive - Storage Area	VOC	0.04	0.25
FUG003 (5)	Fugitive - Unloading North Jetty	VOC	0.01	0.03
FUG004 (5)	Fugitive - Unloading South Jetty	VOC	0.01	0.03
TK01	Diesel Fuel Storage Tank 1	VOC	0.03	<0.01
TK02	Diesel Fuel Storage Tank 2	VOC	0.03	<0.01
TK03	Diesel Fuel Storage Tank 3	VOC	0.02	<0.01
TK04	Diesel Fuel Storage Tank 4	VOC	0.02	<0.01
TK05	Diesel Fuel Storage Tank 5	VOC	0.02	<0.01
TK06	Diesel Fuel Storage Tank 6	VOC	0.01	<0.01
TK07	Diesel Fuel Storage Tank 7	VOC	0.01	<0.01

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

NO<sub>x</sub> - total oxides of nitrogen

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.

CO - carbon monoxide

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

NH<sub>3</sub> - ammonia

- (4) Emission rates are based on 100 hours per year each for EPNs 009 - 015 for maintenance and testing.
- (5) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.
- (6) Start-up or shutdown emissions shall be based on a 3-hour average.

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

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

\_\_\_\_\_ Hrs/day \_\_\_ Days/week \_\_\_ Weeks/year or 8,760 Hrs/year

Dated August 30, 2005