

## EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Number 8414

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

<u>Emission Rates *</u>	<u>Source</u>	<u>Air Contaminant</u>	<u>Emission</u>	
<u>Point No. (1)</u>	<u>Name (2)</u>	<u>Name (3)</u>	<u>lb/hr</u>	
<u>TPY**</u>				
<b>Inlet/Treated Gas Compressor Turbines (5)</b>				
E-1-1	Inlet/Treated Gas Compressor Allison 501-KC5	NO <sub>x</sub>	19.10	79.20
		CO	19.90	91.40
		VOC	0.50	2.20
		PM	0.30	1.31
		SO <sub>2</sub>	0.15	0.66
E-1-2	Inlet/Treated Gas Compressor Allison 501-KC5	NO <sub>x</sub>	19.10	79.20
		CO	19.90	91.40
		VOC	0.50	2.20
		PM	0.30	1.31
		SO <sub>2</sub>	0.15	0.66
E-1-3	Inlet/Treated Gas Compressor Allison 501-KC5	NO <sub>x</sub>	19.10	79.20
		CO	19.90	91.40
		VOC	0.50	2.20
		PM	0.30	1.31
		SO <sub>2</sub>	0.15	0.66
E-1-4	Inlet/Treated Gas Compressor Allison 501-KC5	NO <sub>x</sub>	19.10	79.20
		CO	19.90	91.40
		VOC	0.50	2.20
		PM	0.30	1.31
		SO <sub>2</sub>	0.15	0.66

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<u>Emission Rates *</u>	Source	Air Contaminant	<u>Emission</u>	
<u>Point No. (1)</u>	<u>Name (2)</u>	<u>Name (3)</u>	<u>lb/hr</u>	<u>TPY**</u>
E-1-5	Inlet/Treated Gas Compressor Allison 501-KC5	NO <sub>x</sub>	19.10	79.20
		CO	19.90	91.40
		VOC	0.50	2.20
		PM	0.30	1.31
		SO <sub>2</sub>	0.15	0.66
E-1-6	Inlet/Treated Gas Compressor Allison 501-KC5	NO <sub>x</sub>	19.10	79.20
		CO	19.90	91.40
		VOC	0.50	2.20
		PM	0.30	1.31
		SO <sub>2</sub>	0.15	0.66
Refrigeration Compressor Turbines (5) with Supplemental Duct Burner Firing (6)				
E-2-1	Refrigeration Compressor A - Turbine with Supplemental Duct Burner	NO <sub>x</sub>	71.80	286.30
		CO	55.30	293.30
		VOC	0.90	6.10
		PM	1.75	6.98
		SO <sub>2</sub>	0.63	2.70
E-2-2	Refrigeration Compressor B - Turbine with Supplemental Duct Burner	NO <sub>x</sub>	71.80	286.30
		CO	55.30	293.30
		VOC	0.90	6.10
		PM	1.75	6.98
		SO <sub>2</sub>	0.63	2.70
E-2-3	Refrigeration Compressor C - Turbine with Supplemental Duct Burner	NO <sub>x</sub>	71.80	286.30
		CO	55.30	293.30
		VOC	0.90	6.10
		PM	1.75	6.98
		SO <sub>2</sub>	0.63	2.70

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<u>Emission Rates *</u>	Source	Air Contaminant	<u>Emission</u>	
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY**
E-3	Auxiliary Boiler (7) 65.5 MMBtu/hr	NO <sub>x</sub>	7.00	18.00
		CO	11.00	22.00
		VOC	0.60	1.30
		PM	0.49	1.34
		SO <sub>2</sub>	0.04	0.11
EMERFLARE	Plant Flare Pilot (8)	NO <sub>x</sub>	0.05	0.24
		CO	0.46	2.02
		VOC	0.04	0.19
EMERFLARE	Plant Flare (9)	NO <sub>x</sub>	1.31	0.32
		CO	11.26	2.77
		VOC	9.01	2.19
		SO <sub>2</sub>	94.11	23.15
		H <sub>2</sub> S	0.98	0.24
FL-1	Emergency Field Flare (8)	NO <sub>x</sub>	0.01	0.05
		CO	0.09	0.40
		VOC	0.01	0.04
FUG1	Plant Piping Fugitives (4)	VOC (10)	4.42	19.34
		VOC (11)	25.52	111.74
		H <sub>2</sub> S	0.73	3.20
E-6	Drum Mounted Incinerator	PM	0.15	0.10
		VOC	0.07	0.10
		CO	0.35	0.10

(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.

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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
- H<sub>2</sub>S - hydrogen sulfide
- PM - particulate matter, suspended in the atmosphere, including PM<sub>10</sub>
- PM<sub>10</sub> - 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.
- (4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.
- (5) Turbine lb/hr limits are based on worst conditions (100°F ambient) and ton per year (tpy) limits are based on average conditions (60°F ambient).
- (6) Duct Burner lb/hr limits are based on maximum firing rate of 84.7 MMBtu/hr and tpy limits are based upon firing rate of 63.3 MMBtu/hr.
- (7) Auxiliary boiler limits are based upon manufacturer's data.
- (8) Pilot gas emissions only.
- (9) Emissions from maintenance, start-up, and shutdown (MSS) activities as authorized in Special Condition No. 15. Authorized are only emissions associated with burning inlet gas when MSS occurs.
- (10) Fugitive emissions after implementation of Special Condition No. 10.
- (11) Fugitive emissions before implementation of Special Condition No. 10.

\* 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 March 25, 2008