

# EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Number 86614

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>	
			<sup>*</sup> lb/hr	TPY**
FL-01	Flare - MSS (4)	NO <sub>x</sub>	10.04	1.93
		CO	20.04	3.85
		SO <sub>2</sub>	0.11	0.02
		PM <sub>10</sub>	0.52	0.10
		PM <sub>2.5</sub>	0.52	0.10
		VOC	3.10	0.59
FL-01	Flare - Normal Operation	NO <sub>x</sub>	0.17	0.75
		CO	0.34	1.51
		SO <sub>2</sub>	0.01	0.01
		PM <sub>10</sub>	0.01	0.04
		PM <sub>2.5</sub>	0.01	0.04
		VOC	0.06	0.25
K-189	Engine 1: Caterpillar G3606	NO <sub>x</sub>	2.57	11.25
		CO	1.84	8.04
		SO <sub>2</sub>	0.01	0.05
		PM <sub>10</sub>	0.01	0.01
		PM <sub>2.5</sub>	0.01	0.01
		VOC	0.88	3.86
K-190	Engine 2: Caterpillar G3516	NO <sub>x</sub>	3.80	16.66
		CO	1.06	4.64
		SO <sub>2</sub>	0.01	0.04
		PM <sub>10</sub>	0.01	0.01
		PM <sub>2.5</sub>	0.01	0.01
		VOC	0.31	1.38

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K-193	Engine 3: Caterpillar G3516	NO <sub>x</sub>	4.43	19.41
		CO	1.21	5.28
		SO <sub>2</sub>	0.01	0.04
		PM <sub>10</sub>	0.01	0.01
		PM <sub>2.5</sub>	0.01	0.01
		VOC	0.31	1.35
GLYDEHY-1	Heater/Boiler 1	NO <sub>x</sub>	0.34	1.50
		CO	0.29	1.26
		SO <sub>2</sub>	0.01	0.01
		PM <sub>10</sub>	0.03	0.11
		PM <sub>2.5</sub>	0.03	0.11
		VOC	0.14	0.62
GLYDEHY-3	Heater/Boiler 2	NO <sub>x</sub>	0.34	1.50
		CO	0.29	1.26
		SO <sub>2</sub>	0.01	0.01
		PM <sub>10</sub>	0.03	0.11
		PM <sub>2.5</sub>	0.03	0.11
		VOC	0.14	0.62
T-01	Tank 1: Condensate (5)	VOC	0.71	2.99
T-02	Tank 2: Condensate (5)	VOC	0.71	2.99
T-04	Tank 4: Produced Water	VOC	0.01	0.02
T-05	Tank 5: Produced Water	VOC	0.01	0.02
T-06	Tank 6: Produced Water	VOC	0.01	0.02
LOAD-1	Loading 1: Truck Loading	VOC	1.94	0.16

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MSS EB-02	Miscellaneous Maintenance Activities	VOC	8.47	2.19
PUMP (6)	Miscellaneous Process Pumps	VOC	2.19	1.01
FUG-1	Fugitives 1: Process Fugitives (7)	VOC	2.12	9.27

- (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<sub>x</sub> - total oxides of nitrogen

SO<sub>2</sub> - sulfur dioxide

PM<sub>10</sub> - particulate matter equal to or less than 10 microns in diameter

PM<sub>2.5</sub> - particulate matter equal to or less than 2.5 microns in diameter

CO - carbon monoxide

- (4) Compressor blowdowns are routed to this EPN. The blowdown activities routed to this EPN occur a total of 384 hrs/yr.
- (5) The condensate tank emissions for EPNs T-01 and T-02 include third stage flash emissions which occur in the gun barrel tank and are routed to either one of the condensate tanks. The total emissions for the third stage flash emissions is 1.09 lb/hr and 4.74 tpy but have been split equally between the two tanks.
- (6) This EPN incorporates the emissions associated with the following natural gas operated equipment:  
10 Diaphragm Pumps, 9 Injection Pumps, 48 Controllers, and 2 Chemical Pumps.
- (7) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.

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

24 Hrs/day 7 Days/week 52 Weeks/year or 8760 Hrs/year

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

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Date: April 6, 2009