

# EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Number 21715

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**
S-70	Sulfur Scrubber S-52	H <sub>2</sub> S	0.054	0.002
		SO <sub>2</sub>	0.341	0.010
BH-03	Filter Aid Unloading (Baghouse)	PM <sub>10</sub>	0.001	0.001
HO-15	Hot Oil Heater	PM <sub>10</sub>	0.182	0.799
		VOC	0.132	0.578
		NO <sub>x</sub>	0.720	3.154
		SO <sub>2</sub>	0.014	0.063
		CO	2.016	8.830
BH-02	Lime Silo (Baghouse)	PM <sub>10</sub>	0.001	0.001
OF-3	Plate and Frame Filter	VOC	4.635	4.409
		PM (mist)	0.987	2.970
HHO-15	Hot Oil Surge Vent	VOC	0.87	0.05
<b>Prior to Vent Header Installation:</b>				
FI-01	Fume Incinerator	PM <sub>10</sub>	0.08	0.18
		VOC	0.53	0.42
		NO <sub>x</sub>	1.09	2.32
		SO <sub>2</sub>	12.68	7.95
		CO	0.91	1.95
		H <sub>2</sub> S	0.12	0.07
H-56	Product Tank	VOC	0.521	0.348
LS-2	Blend Oil Tank	VOC	0.033	0.004
FUG-55	Fugitive Emissions (4)	VOC	0.636	2.776

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY**

**After the Vent Header Installation:****Control Option 1**

FI-01	Fume Incinerator (5)	PM <sub>10</sub>	0.08	0.18
		VOC	0.55	0.42
		NO <sub>x</sub>	1.09	2.32
		SO <sub>2</sub>	12.68	7.95
		CO	0.91	1.95
		H <sub>2</sub> S	0.12	0.07
FUG-55	Fugitive Emissions (4)	VOC	0.653	2.849

**Control Option 2**

H-56	Product Tank (7)	VOC	0.82	0.19
FI-01	Fume Incinerator (6)	PM <sub>10</sub>	0.08	0.18
		VOC	0.53	0.42
		NO <sub>x</sub>	1.09	2.32
		SO <sub>2</sub>	12.68	7.95
		CO	0.91	1.95
		H <sub>2</sub> S	0.12	0.07
LS-2	Blend Oil Tank (7)	VOC	0.04	0.01
FUG-55	Fugitive Emissions (4)	VOC	0.653	2.849

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- (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.
- (3) VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code ' 101.1  
H<sub>2</sub>S - hydrogen sulfide  
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 particulate matter greater than 10 microns is emitted.  
NO<sub>x</sub> - total oxides of nitrogen  
CO - carbon monoxide
- (4) Emission rate is an estimate and compliance is demonstrated by meeting the requirements of the applicable special conditions and permit application representations.
- (5) This represents the emissions based on Control Option 1 which allows Product Tank H-56 and Blend Oil Tank LS-2 to be routed to the Fume Incinerator (EPN FI-01) in addition to the routing of the following equipments to Fume Incinerator FI-01: H-50, H-51, H-52, H-53, H-54, H-55, H-60, H-61, H-62, H-63, H-65, H-66, H-67, H-69, H-71, H-73, H-74, H-78, H-79, H-T06, S-28A, S-28B, S-71, S-H62, and TO-6.
- (6) This represents the emissions based on Control Option 2 in which the following equipments are routed to the Fume Incinerator FI-01: H-50, H-51, H-52, H-53, H-54, H-55, H-60, H-61, H-62, H-63, H-65, H-66, H-67, H-69, H-71, H-73, H-74, H-78, H-79, H-T06, S-28A, S-28B, S-71, S-H62, and TO-6.
- (7) In Control Option 2, Product Tank H-56 and Blend Oil Tank LS-2 each shall vent through their dedicated carbon canisters for additional control.

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

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

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

Dated August 12, 2011