

## Emission Sources - Maximum Allowable Emission Rates

Permit Number 9824A

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, sources, and related activities. 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	
			lbs/hour	TPY (4)
1	Acid Gas Flare Pilot/Sweep Gas Only	SO <sub>2</sub>	0.01	0.01
		NO <sub>x</sub>	0.04	0.17
		CO	0.08	0.34
		VOC	0.01	0.01
		H <sub>2</sub> S	0.01	0.01
	Emergency Flare SRU MSS	SO <sub>2</sub>	396.85	28.57
		NO <sub>x</sub>	0.11	0.01
		CO	0.93	0.07
		VOC	0.15	0.01
		H <sub>2</sub> S	4.30	0.31
2	Process Flare Pilot/Sweep Gas and Process Waste Gas	SO <sub>2</sub>	0.01	0.02
		NO <sub>x</sub>	0.27	0.50
		CO	0.55	1.00
		VOC	4.59	2.30
		H <sub>2</sub> S	0.01	0.01

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

4	3516 Engine No. 1	SO <sub>2</sub>	0.01	0.02
		NO <sub>x</sub>	4.78	20.95
		CO	4.78	20.95
		VOC	0.77	3.35
		PM	0.09	0.39
		PM <sub>10</sub>	0.09	0.39
		PM <sub>2.5</sub>	0.09	0.39
10	Amine Reboiler	SO <sub>2</sub>	0.01	0.01
		NO <sub>x</sub>	0.55	2.42
		CO	0.46	2.03
		VOC	0.03	0.13
		PM	0.04	0.18
		PM <sub>10</sub>	0.04	0.18
		PM <sub>2.5</sub>	0.04	0.18
11	TEG Reboiler	SO <sub>2</sub>	0.01	0.01
		NO <sub>x</sub>	0.12	0.54
		CO	0.10	0.45
		VOC	0.01	0.03
		PM	0.01	0.04
		PM <sub>10</sub>	0.01	0.04
		PM <sub>2.5</sub>	0.01	0.04
12	3516 Engine No. 2	SO <sub>2</sub>	0.01	0.02
		NO <sub>x</sub>	4.78	20.95
		CO	4.78	20.95

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

		VOC	0.77	3.35
		PM	0.09	0.39
		PM <sub>10</sub>	0.09	0.39
		PM <sub>2.5</sub>	0.09	0.39
13	3516 Engine No. 3	SO <sub>2</sub>	0.01	0.02
		NO <sub>x</sub>	4.78	20.95
		CO	4.78	20.95
		VOC	0.77	3.35
		PM	0.09	0.39
		PM <sub>10</sub>	0.09	0.39
		PM <sub>2.5</sub>	0.09	0.39
20	Dehydrator Heater	SO <sub>2</sub>	0.01	0.01
		NO <sub>x</sub>	0.28	1.21
		CO	0.23	1.01
		VOC	0.02	0.07
		PM	0.02	0.09
		PM <sub>10</sub>	0.02	0.09
		PM <sub>2.5</sub>	0.02	0.09

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21	SRU Incinerator	SO <sub>2</sub>	67.13	24.99
		NO <sub>x</sub>	0.63	2.74
		CO	1.06	4.60
		VOC	0.04	0.14
		PM	0.10	0.42
		PM <sub>10</sub>	0.10	0.42
		PM <sub>2.5</sub>	0.10	0.42
		H <sub>2</sub> S	0.04	0.10
22	Process Fugitives (5)	H <sub>2</sub> S	0.32	1.39
		VOC	1.23	5.39
LOAD	Loading Fugitives	VOC	4.78	0.13
SITEWIDE	Sitewide Sources	Individual HAP		<10.00
		Total HAPs		<25.00

- (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.
- (3) CO - carbon monoxide  
H<sub>2</sub>S - hydrogen sulfide  
NO<sub>x</sub> - total oxides of nitrogen  
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.  
SO<sub>2</sub> - sulfur dioxide  
VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code ' 101.1  
HAP - hazardous air pollutant as listed in § 112(b) of the Federal Clean Air Act or Title 40 Code of Federal Regulations Part 63, Subpart C
- (4) Compliance with annual emission limits (tons per year) is based on a 12 month rolling period.
- (5) Emission rate is an estimate and is enforceable through compliance with the applicable special condition(s) and permit application representations.

Date: August 28, 2013