

# EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Number 56568

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 Air Contaminant Point No. (1)		Emission Rates *		Source
Name (3)		Name (2)		
		lb/hr	TPY **	
EQ-1V	Boiler No. 1 125 MMBtu/hr	VOC	0.70	2.90
		CO	8.10	35.50
		NO <sub>x</sub>	7.50	32.80
		SO <sub>2</sub>	0.10	0.30
		PM <sub>10</sub>	0.90	4.00
EQ-2V	Boiler No. 2 125 MMBtu/hr	VOC	0.70	2.90
		CO	8.10	35.50
		NO <sub>x</sub>	7.50	32.80
		SO <sub>2</sub>	0.10	0.30
		PM <sub>10</sub>	0.90	4.00
EQ-3V	Boiler No. 3 210 MMBtu/hr	VOC	1.10	4.80
		CO	13.60	59.60
		NO <sub>x</sub>	12.60	55.20
		SO <sub>2</sub>	0.10	0.50
		PM <sub>10</sub>	1.50	6.70
BOS-31V	Boiler No. 4 210 MMBtu/hr	VOC	1.10	4.80
		CO	13.60	59.60
		NO <sub>x</sub>	12.60	55.20
		SO <sub>2</sub>	0.10	0.50
		PM <sub>10</sub>	1.50	6.70
FLARE1	Flare (4) (Normal Operations)	VOC	58.70	85.95
		CO	21.36	33.09
		NO <sub>x</sub>	4.19	6.49
		SO <sub>2</sub>	0.02	0.02
		HCl	1.41	2.67

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

Maintenance, Startup, and Shutdown (MSS) Emissions

FLARE1	Flare (4) (MSS Activities)	VOC	171.43	6.91
		CO	59.38	3.40
		NO <sub>x</sub>	11.67	0.67
		SO <sub>2</sub>	0.01	0.01
		NH <sub>3</sub>	0.04	0.01
EQCLDEGAS	Equipment Clearing and Degassing to Atmosphere	VOC	272.10	0.88
ABBLAST	Abrasive Blasting	PM	4.62	1.44
		PM <sub>10</sub>	1.10	0.34
		PM <sub>2.5</sub>	0.11	0.03
CALGAS	Analyzer Calibration Gas	VOC	1.01	0.24
MATLHAND	Material Handling	PM	0.11	0.04
		PM <sub>10</sub>	0.04	0.01
		PM <sub>2.5</sub>	0.02	0.01
MISCMT	Miscellaneous Maintenance	VOC	0.80	0.41
OILTRANS	Lube Oil Transfer	VOC	0.07	0.01
SAMPLING	Sampling	VOC	0.08	0.41
SLDWASTE	Solid Waste	PM	1.61	0.01
		PM <sub>10</sub>	0.59	0.01
		PM <sub>2.5</sub>	0.30	0.01
WASTHANDL	Waste Handling	VOC	0.01	0.01

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- (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) VOC - volatile organic compounds as defined in 30 Texas Administrative Code § 101.1  
HCl - hydrochloric acid  
NH<sub>3</sub> - ammonia  
CO - carbon monoxide  
NO<sub>x</sub> - total oxides of nitrogen  
SO<sub>2</sub> - sulfur dioxide  
PM - particulate matter, suspended in the atmosphere, including PM<sub>10</sub> and PM<sub>2.5</sub>  
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  
PM<sub>2.5</sub> - particulate matter (PM) equal to or less than 2.5 microns in diameter.
  - (4) Flare's emissions are from facilities authorized in Permit Numbers 18072, 19663, 22508, and PSDTX874.
- \* Emission rates are based on and are limited by the following maximum operating schedule: 8,760 hours/year.
- \*\* Compliance with annual emission limits is based on a rolling 12-month period.

Dated: August 15,

2011