

# EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Number 56134

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
HTRSTK (5)	Process Heater 751	PM <sub>10</sub>	0.24	1.11
		SO <sub>2</sub>	0.06	0.25
		NO <sub>x</sub>	2.12	9.28
		CO	0.68	2.95
		VOC	0.34	1.48
HTRSTK (5)	Process Heater 752	PM <sub>10</sub>	0.10	0.42
		SO <sub>2</sub>	0.03	0.10
		NO <sub>x</sub>	0.84	3.68
		CO	0.27	1.17
		VOC	0.14	0.59
HTRSTK (5)	Process Heater 753	PM <sub>10</sub>	0.08	0.34
		SO <sub>2</sub>	0.02	0.08
		NO <sub>x</sub>	0.67	2.93
		CO	0.22	0.93
		VOC	0.11	0.47
HTRSTK (5)	Process Heater 754	PM <sub>10</sub>	0.29	1.25
		SO <sub>2</sub>	0.07	0.30
		NO <sub>x</sub>	2.52	11.10
		CO	0.80	3.51
		VOC	0.40	1.76
HTRSTK (5)	Process Heater 756	PM <sub>10</sub>	0.28	1.19
		SO <sub>2</sub>	0.07	0.29
		NO <sub>x</sub>	2.40	10.50
		CO	0.76	3.33
		VOC	0.38	1.67
STRP-OVHD	Stripper Overhead Shutdown and Maintenance Emissions	CO	51.87	5.35
POX1	POX 1 CO <sub>2</sub> Start-Up	CO	8.19	0.13

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			lb/hr	TPY
	Emissions			
POX2	POX 2 CO <sub>2</sub> Start-Up Emissions	CO	8.19	0.13
FL1 (6)	Flare Pilot and Sweep	SO <sub>2</sub>	0.01	0.01
		NO <sub>x</sub>	0.04	0.15
		CO	0.29	1.26
		VOC	0.04	0.14
FL1 (6)	Start-Up, Shutdown, and Maintenance Emissions	NO <sub>x</sub>	26.0	1.19
		CO	1200.0	28.5
FUG	Process Fugitives	CO	8.21	36.0
		VOC	0.77	3.34

- (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) 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.  
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  
CO - carbon monoxide
- (4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.
- (5) Total emissions from the Heater Stack (EPN HTRSTK) are the sum of the emissions from the Process Heaters 751, 752, 753, 754, and 756.
- (6) Total emissions from the Flare (EPN FL1) are the sum of the pilot and sweep, and venting to flare emissions.

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

Hrs/day 24 Days/week 7 Weeks/year 52 or Hrs/year 8,760

\*\* Emission rates are based on a continuous operating schedule. Compliance with annual emission limits is based on a rolling 12-month period.

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Date January 16, 2004