

# EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Number 87549

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**
5	Flare	CO	0.29	1.28
		NO <sub>x</sub>	0.15	0.64
		SO <sub>2</sub>	0.001	0.004
		VOC	0.001	0.001
5	Flare MSS	CO	117.09	26.56
		H <sub>2</sub> S	0.01	0.01
		NO <sub>x</sub>	58.65	13.30
		SO <sub>2</sub>	0.35	0.08
		VOC	0.01	0.01
HP-1	Reformer Flue Gas Stack	CO	2.59	10.29
		NH <sub>3</sub>	1.61	6.38
		NO <sub>x</sub>	2.17	8.63
		PM <sub>10</sub>	2.91	11.56
		SO <sub>2</sub>	0.05	0.22
		VOC	4.40	17.46
HP-1	Reformer Flue Gas Stack MSS	NO <sub>x</sub>	13.10	2.36
HP-2	Deaerator	CO	0.67	
		NH <sub>3</sub>	0.05	
		Methanol	0.16	
HP-5	Steam Vent MSS	CO	0.67	
		NH <sub>3</sub>	0.05	
		Methanol	0.16	
HP-2 and HP-5	Deaerator and Steam Vent	CO		2.92
		NH <sub>3</sub>		0.22

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u>	
			lb/hr	TPY**
		Methanol		0.71
HP-3	Hydrodesulfurization Reactor MSS	PM <sub>10</sub>	0.04	0.01
HP-4	Cooling Tower	PM <sub>10</sub>	0.14	0.61
HP-FUG	Process Fugitives	NH <sub>3</sub>	0.05	0.23
		VOC	0.03	0.11

(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) CO - carbon monoxide

H<sub>2</sub>S - hydrogen sulfide

NH<sub>3</sub> - ammonia

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 PM 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

\* 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

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

Dated March 23, 2009