

# EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Number 5452

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**
F-A1	Furnace A-West Stack	NO <sub>x</sub>	12.24	53.61
		CO	3.67	16.08
		PM <sub>10</sub>	0.33	1.46
		VOC	0.24	1.05
		SO <sub>2</sub>	0.03	0.11
F-A2	Furnace A-Center Stack	NO <sub>x</sub>	12.24	53.61
		CO	3.67	16.08
		PM <sub>10</sub>	0.33	1.46
		VOC	0.24	1.05
		SO <sub>2</sub>	0.03	0.11
F-A3	Furnace A- East Stack	NO <sub>x</sub>	12.24	53.61
		CO	3.67	16.08
		PM <sub>10</sub>	0.33	1.46
		VOC	0.24	1.05
		SO <sub>2</sub>	0.03	0.11
F-B	Furnace B Stack	NO <sub>x</sub>	41.92	183.62
		CO	12.58	55.09
		PM <sub>10</sub>	0.77	3.37
		VOC	0.22	0.95
		SO <sub>2</sub>	0.09	0.41
F-CD	Hydrotreater Oil and Feed Heater Stack (EPN F-CD) is a Combined Stack for Heater F-C (97 MMBtu/hr) and Heater F-D (38 MMBtu/hr)	NO <sub>x</sub>	8.78	38.43
		CO	7.29	31.93
		PM <sub>10</sub>	1.05	4.59
		VOC	0.76	3.32
		SO <sub>2</sub>	0.08	0.36

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GLY-1	Glycol Unit Regen Stack	VOC	1.92	8.5
B-08	No. 8 Boiler Stack	NO <sub>x</sub>	12.30	53.87
		CO	18.64	81.63
		PM <sub>10</sub>	1.59	6.96
		VOC	1.15	5.04
		SO <sub>2</sub>	0.12	0.53
FUG-FRAC	Frac Plant Fugitives (4)	VOC	34.95	153.10
FUG-IMP	Imports Unit Fugitives (4)	VOC	8.06	35.34
FUG-HYDRO	Hydrotreater Unit Fugitives (4)	VOC	4.92	21.55
		H <sub>2</sub> S	0.01	0.01

(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) NO<sub>x</sub> - total oxides of nitrogen

CO - carbon monoxide

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.

VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1

SO<sub>2</sub> - sulfur dioxide

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

(4) Emissions are an estimate based on component count, factors, and applicable reduction credits for a leak detection and repair program.

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

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

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

Dated July 13, 2006