

# EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Number 80806

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)	<u>Emission Rates *</u>	
			lb/hr	TPY**
MSSCONT	Controlled Process Vessel Degassing	CO	3,571	32.07
		H <sub>2</sub> S	13.38	0.35
		NO <sub>x</sub>	508.5	4.94
		SO <sub>2</sub>	1,259	32.65
		VOC	4,767	18.30
		NH <sub>3</sub>	19.90	1.29
MSSATM	Atmospheric MSS	VOC	148.6	16.31
		PM	5.73	0.36
MSSTANK	Tank MSS	CO	25.87	0.12
		NO <sub>x</sub>	12.96	0.06
		VOC	930.7	11.24
MSSDCOKE	Decoking	CO	168.0	3.36
		PM	5.00	0.10
3-95-3	FCC Startup/Shutdown	CO	4,344	20.36
		NO <sub>x</sub>	178.4	0.54
		SO <sub>2</sub>	124.1	0.31
		VOC	8.53	0.09
		PM	57.76	0.58
		Sulfuric Acid	13.30	0.13
28.2-36-2 39.1-95-118	SRU Startup and Meltout	CO	24.33	1.25
		H <sub>2</sub> S	0.15	0.01
		NO <sub>x</sub>	27.98	1.44
		SO <sub>2</sub>	278.0	11.87
		VOC	0.67	0.03
		PM	0.92	0.04

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- (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)  $\text{NH}_3$  - ammonia  
VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1  
 $\text{NO}_x$  - total oxides of nitrogen  
 $\text{SO}_2$  - sulfur dioxide  
CO - carbon monoxide  
 $\text{H}_2\text{S}$  - hydrogen sulfide  
PM - particulate matter, suspended in the atmosphere, including  $\text{PM}_{10}$   
 $\text{PM}_{10}$  - particulate matter equal to or less than 10 microns in diameter, including  $\text{PM}_{2.5}$   
 $\text{PM}_{2.5}$  - particulate matter equal to or less than 2.5 microns in diameter

- \* 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 August 20, 2010