

# 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, sources, and related activities. 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	
			lbs/hour	TPY (4)
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

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
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
27.1-36-RE	FCCU 27.1 MSS	CO	10,164.	304.93
		PM	2,465.	73.95
		PM <sub>10</sub>	492.98	14.79
		PM <sub>2.5</sub>	98.60	2.96

- (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 Title 30 Texas Administrative Code § 101.1  
 NO<sub>x</sub> - total oxides of nitrogen  
 SO<sub>2</sub> - sulfur dioxide  
 PM - total particulate matter, suspended in the atmosphere, including PM<sub>10</sub> and PM<sub>2.5</sub>, as represented  
 PM<sub>10</sub> - total particulate matter equal to or less than 10 microns in diameter, including PM<sub>2.5</sub>, as represented  
 PM<sub>2.5</sub> - particulate matter equal to or less than 2.5 microns in diameter  
 CO - carbon monoxide  
 H<sub>2</sub>S - hydrogen sulfide  
 NH<sub>3</sub> - ammonia  
 (4) Compliance with annual emission limits (tons per year) is based on a 12 month rolling period.

Date: June 14, 2017