

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Numbers 21054 and PSD-TX-331M1

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**
H-018	HCU Fractionator Heater	CO	1.13	4.95
		NO _x	3.39	14.85
		PM ₁₀ 0.22	0.93	
		SO ₂	0.95	1.25
		VOC	0.16	0.67
H-019	HCU Fractionator Heater	CO	1.13	4.95
		NO _x	3.39	14.85
		PM ₁₀ 0.22	0.93	
		SO ₂	0.95	1.25
		VOC	0.16	0.67
H-034	HCU Recycle Heater	CO	2.00	7.97
		NO _x	2.00	7.97
		PM ₁₀ 0.55	2.19	
		SO ₂	1.68	2.01
		VOC	0.27	1.08
H-035	HCU Debutanizer Reboiler Heater	CO	2.30	10.07
		NO _x	2.30	10.07
		PM ₁₀ 0.63	2.77	
		SO ₂	1.93	2.54
		VOC	0.31	1.36
FL-004	HCU Flare	CO	6.09	9.25
		NO _x	2.00	1.80
		SO ₂	0.96	0.12
		VOC 4.77	4.80	
F-3200	HCU Fugitives (4)	VOC	6.64	29.08

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			<u>lb/hr</u>	<u>TPY**</u>
F-3300	No. 2 SWS Fugitives (4)	H ₂ S	0.01	0.02
		NH ₃	0.01	0.01
		VOC 0.02	0.07	

(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) CO - carbon monoxide

H₂S - hydrogen sulfide

NH₃ - ammonia

NO_x - total oxides of nitrogen

PM₁₀ - 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.

SO₂ - sulfur dioxide

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

(4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.

* 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 emissions is based on a 12-month period.

Dated _____