

# Emission Sources - Maximum Allowable Emission Rates

Permit Number 49154

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)
11ALKYFUG	Alkylation Unit Fugitives (5)	VOC	3.04	13.31
		Hydrogen Fluoride	0.24	1.03
37ARORKLDG	Aromex Loading Rack Fugitives and Losses	VOC	1.19	0.74
		Benzene	0.86	0.59
25AROMXFUG	Aromex Unit Fugitives (5)	VOC	1.03	4.52
		Benzene	0.42	1.85
08CLEFUG	Cat Light Ends Unit Fugitives (5)	VOC	4.24	18.57
		H <sub>2</sub> S	0.06	0.25
25CLAYHTR	Clay Tower Heater	VOC	0.09	0.39
		NO <sub>x</sub>	1.49	6.53
		SO <sub>2</sub>	0.43	0.47
		PM <sub>10</sub>	0.12	0.53
		CO	1.05	4.60
37TANK0321	Storage Tank 321	VOC	0.99	1.28
37TK321FUG	Storage Tank 321 Fugitives (5)	VOC	0.03	0.11
06CHRGHTR	FCCU Charge Heater	VOC	0.33	1.29
		NO <sub>x</sub>	2.21	8.58
		SO <sub>2</sub>	1.84	2.02
		PM <sub>10</sub>	0.47	1.83
		CO	2.19	8.52

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06ESPPCV	FCCU ESP Stack	VOC	5.08	22.25
		NO <sub>x</sub>	105.98	464.21
		SO <sub>2</sub>	669.90	2430.37
		Total PM/PM <sub>10</sub> (6)	35.55	155.73
		CO	161.32	706.59
06FCCUFUG	FCCU Fugitives (5)	VOC	7.10	31.09
		Benzene	0.04	0.16
		H <sub>2</sub> S	0.03	0.14
14NEASTFLR	Northeast Flare	VOC	14.90	5.34
		NO <sub>x</sub>	1.28	0.33
		CO	10.95	2.79
		Benzene	2.04	4.14
06CTR16FUG	Cooling Tower 16	VOC	0.36	1.59
08CLECTR	Cooling Tower 2	VOC	0.38	1.66
11CTR6FUG	Cooling Tower 6	VOC	0.34	1.47

- (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, including benzene
  - 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>
  - PM<sub>10</sub> - total particulate matter equal to or less than 10 microns in diameter
  - CO - carbon monoxide
  - H<sub>2</sub>S - hydrogen sulfide
- (4) Compliance with annual emission limits (tons per year) is based on a 12 month rolling period.
- (5) Emission rate is an estimate and is enforceable through compliance with the applicable special condition(s) and permit application representations.
- (6) This includes front and back half PM/PM<sub>10</sub> using the EPA Reference Method 5 and equivalent methods.

Date: \_\_\_\_\_