

# Emission Sources - Maximum Allowable Emission Rates

Permit Number 49325

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)
AMINE VENT	Amine Vent	H <sub>2</sub> S	0.07	0.30
		VOC	3.00	13.14
G4-1301	Cooling Tower	PM <sub>10</sub>	1.88	8.22
		VOC	0.42	1.84
G10-601-1	Deethanizer Reboiler	CO	4.20	18.40
		NO <sub>x</sub>	5.00	21.90
		PM <sub>10</sub>	0.38	1.66
		SO <sub>2</sub>	0.03	0.13
		VOC	0.28	1.20
G10-601-2	Deethanizer Reboiler	CO	4.20	18.40
		NO <sub>x</sub>	5.00	21.90
		PM <sub>10</sub>	0.38	1.66
		SO <sub>2</sub>	0.03	0.13
		VOC	0.28	1.20
20-1	Depropanizer Reboiler	CO	3.73	16.35
		NO <sub>x</sub>	4.44	19.47
		PM <sub>10</sub>	0.34	1.48
		SO <sub>2</sub>	0.03	0.12
		VOC	0.24	1.07
AMINE REB	Amine Reboiler	CO	0.37	1.64

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		NO <sub>x</sub>	0.44	1.95
		PM <sub>10</sub>	0.03	0.15
		SO <sub>2</sub>	0.01	0.01
		VOC	0.02	0.11
G10-1801	Flare (6)	CO	0.19	0.82
		NO <sub>x</sub>	0.02	0.10
		SO <sub>2</sub>	<0.01	<0.01
		VOC	0.61	2.70
G10-1802	Flare pit	CO	0.06	0.28
		NO <sub>x</sub>	<0.01	0.03
		SO <sub>2</sub>	<0.01	<0.01
		VOC	<0.01	0.04
FUGITIVES	Fugitives (5)	H <sub>2</sub> S	0.01	0.01
		VOC	2.74	11.97
REGEN	E/P Dehydration Regenerator	CO	0.08	0.30
		NO <sub>x</sub>	0.10	0.36
		PM/PM <sub>10</sub> /PM <sub>2.5</sub>	0.01	0.03
		SO <sub>2</sub>	<0.01	<0.01
		VOC	<0.01	0.02
SITEWIDE	Sitewide Sources (7)	Individual HAP Total HAPs		< 10.00 < 25.00

- (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

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- 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> - total particulate matter equal to or less than 2.5 microns in diameter
  - CO - carbon monoxide
  - H<sub>2</sub>S - hydrogen sulfide
  - HAP - hazardous air pollutant as listed in § 112(b) of the Federal Clean Air Act or Title 40 Code of Federal Regulations Part 63, Subpart C
- (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) These are the routine emission rates only. Maintenance, startup, shutdown, and/or upset emissions are not authorized by this permit.
  - (7) Records of speciated HAP emissions from this site shall be updated two times every 12 months and kept at the plant site on a rolling 24-month basis.

Date: March 27, 2019