

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit No. 1306

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
FUG-2	Plant 2 Fugitives	VOC	0.01	0.01
		H ₂ S <0.01	0.01	
202H	Dehydrator 2 Reboiler	CO	0.25	1.08
		NO _x	0.29	1.29
		VOC	0.02	0.07
		SO ₂	<0.01	0.01
		PM ₁₀	0.02	0.10
202R	Dehydrator 2 Regenerator	VOC	1.37	6.02
		benzene	<1.0	<1.0
202T	Dehydrator 2 Flash Tank	VOC	0.06	0.26
		benzene	<1.0	<1.0
301	Generator Engine	CO	5.73	25.11
		NO _x	21.50	94.17
		VOC	1.43	6.28
		SO ₂	<0.01	0.02
		PM ₁₀	<0.01	0.02
302	Pump Engine	CO	5.07	
		NO _x	19.02	
		VOC	1.27	
		SO ₂	<0.01	
		PM ₁₀	<0.01	

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Emission *	Source	Air Contaminant	<u>Emission Rates</u>	
<u>Point No. (1)</u>	<u>Name (2)</u>	<u>Name (3)</u>	<u>lb/hr</u>	
<u>TPY</u>				
303	Pump Engine	CO	5.07	
		NO _x	19.02	
		VOC	1.27	
		SO ₂	<0.01	
		PM ₁₀	<0.01	
	Total Annual Emissions for EPN 302 and 303	CO		22.22
		NO _x		83.30
		VOC		5.55
		SO ₂		0.02
		PM ₁₀		0.02
303R	Dehydrator 3 Regenerator	VOC	1.37	6.02
		benzene	<1.0	<1.0
304	Amine Heater 3A	CO	1.55	6.79
		NO _x	3.50	15.33
		VOC	0.12	0.53
		SO ₂	0.03	0.13
		PM ₁₀	0.61	2.67
305	Amine Heater 3B	CO	1.55	6.79
		NO _x	3.50	15.33
		VOC	0.12	0.53
		SO ₂	0.03	0.13
		PM ₁₀	0.61	2.67
306F	Fugitives (4)	VOC	0.28	1.23
307	TEG Heater	CO	0.07	0.31
		NO _x	0.32	1.40
		VOC	0.01	0.04
		SO ₂	<0.01	0.04

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<u>Point No. (1)</u>	<u>Name (2)</u>	<u>Name (3)</u>	<u>lb/hr</u>	
<u>TPY</u>				
		PM ₁₀	0.03	0.13
308F	H ₂ S Fugitives (4)	H ₂ S	0.26	1.14
309	TGI	CO	88.54	387.80
		NO _x	1.02	4.47
		VOC	0.48	2.10
		SO ₂	222.79	975.82
		SO ₃	0.80	3.50
		PM ₁₀	0.03	0.13
		H ₂ S	1.20	5.26
310	Acid Gas Flare	CO	0.46	2.01
		NO _x	0.23	1.01
		VOC	0.08	0.37
		SO ₂	2.87	12.57
		PM ₁₀	<0.01	<0.01
		H ₂ S	0.03	0.14
311	Steam Boiler	CO	0.13	0.58
		NO _x	0.64	2.78
		VOC	0.03	0.11
		SO ₂	<0.01	0.02
		PM ₁₀	0.03	0.14
312	Acid Gas Preheater	CO	0.13	0.57
		NO _x	0.62	2.71
		VOC	0.02	0.10
		SO ₂	<0.01	0.02
		PM ₁₀	0.03	0.14
313	Reaction Bed No. 2 Reheater	CO	0.03	0.12
		NO _x	0.13	0.55
		VOC	<0.01	0.02
		SO ₂	<0.01	<0.01
		PM ₁₀	<0.01	0.03

314	Reaction Bed No. 3 Reheater	CO	0.10	0.44
		NO _x	0.48	2.10
		VOC	0.02	0.08
		SO ₂	<0.01	0.02
		PM ₁₀	0.03	0.11

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- (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
NO_x - total oxides of nitrogen
PM₁₀ - particulate matter equal to or less than 10 microns in diameter. Where particulate matter (PM) is not

listed, it shall be assumed that no PM greater than 10 microns in emitted.

SO₂ - sulfur dioxide

VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code Section 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 rate schedule:

Hrs/day _____ Days/week _____ Weeks/year _____ or Hrs/year 8,760

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<u>Point No. (1)</u>	<u>Name (2)</u>	<u>Name (3)</u>	<u>lb/hr</u>
<u>TPY</u>			

Dated March 20, 2002