

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 *	Source	Air Contaminant	Emission	Rates
Point No. (1)	Name (2)	Name (3)	lb/hr	
TPY				
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	
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 (6)	CO		22.22
		NO _x		83.30
		VOC		5.55
		SO ₂		0.02
		PM ₁₀		0.02
304	Amine Heater (7)	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 (7)	CO	1.55	6.79

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TPY				
		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
		PM ₁₀	0.03	0.13
308F	H ₂ S Fugitives (4)	H ₂ S	0.26	1.14
309	Tail Gas Incinerator (TGI) (8,760 hours per year) (5)	CO	0.10	0.53
	15.34	H ₂ S		3.67
		NO _x	0.60	2.53
		PM ₁₀	0.03	0.13
		SO ₂	337.00	1408.70
		SO ₃	2.16	9.03
		VOC	0.48	2.18
309	TGI (8,760 hours per year) (5)(8)	CO	0.10	0.44
		H ₂ S	1.20	5.24
		NO _x	0.60	2.63
		PM ₁₀	0.03	0.13
		SO ₂	221.68	970.96
		SO ₃	1.39	6.10
		VOC	0.48	2.10
310	Flare (200 hours per year)	CO	31.10	3.11
		H ₂ S	14.96	1.50
		NO _x	2.19	0.22
		SO ₂	2,785.20	278.52
311	Steam Boiler	CO	0.13	0.58
		NO _x	0.64	2.78
		VOC	0.03	0.11

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TPY				
		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

- (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 less than 10 microns
SO₂ - sulfur dioxide
SO₃ - sulfur trioxide
VOC - volatile organic compounds as defined in General Rule 101.1
- (4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.
- (5) SO₃ emissions are one-half of 1 percent of SO₂ emissions.
- (6) The engines shall comply with Special Condition No. 14.
- (7) The DEA heaters shall comply with Special Condition No. 15.
- (8) The TGI shall comply with Special Conditions No. 5 and 23.

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Emission *	Source	Air Contaminant	Emission Rates
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TPY			

* 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

Dated _____