

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Number 9418

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)	<u>Emission Rates*</u>	
	TPY***		lb/hr	
GR-2	Glycol Reboiler No. 2 **	NO _x	0.28	0.61
		CO	0.24	0.52
		PM ₁₀	0.02	0.05
		VOC	0.02	0.04
		SO ₂	0.01	0.01
GR-4	Glycol Reboiler No. 4 **	NO _x	0.35	0.77
		CO	0.30	0.65
		PM ₁₀	0.03	0.06
		VOC	0.02	0.04
		SO ₂	0.01	0.01
GR-5	Glycol Reboiler No. 5	NO _x	0.28	1.23
		CO	0.24	1.03
		PM ₁₀	0.02	0.10
		VOC	0.02	0.07
		SO ₂	0.01	0.01
GR-6	Glycol Reboiler No. 6	NO _x	0.48	2.09
		CO	0.66	2.87
		PM ₁₀	0.06	0.26
		VOC	0.04	0.19
		SO ₂	0.01	0.02
INC-1	Incinerator No. 1	NO _x	0.21	0.92
		CO	0.18	0.77
		PM ₁₀	0.02	0.07
		VOC	0.11	0.50
		SO ₂	0.01	0.01

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates*	
			lb/hr	TPY***
INC-2	Incinerator No. 2	NO _x	0.51	1.91
		CO	0.43	1.61
		PM ₁₀	0.04	0.15
		VOC	0.17	0.40
		SO ₂	0.01	0.01
INC-3	Incinerator No. 3	NO _x	0.46	2.00
		CO	0.38	1.68
		PM ₁₀	0.04	0.15
		VOC	0.40	1.64
		SO ₂	0.01	0.01
T-1	Tank No. 1	VOC	0.15	0.53
T-2	Tank No. 2	VOC	0.15	0.53
T-3	Tank No. 3	VOC	0.15	0.53
T-4	Tank No. 4	VOC	0.15	0.53
T-5	Tank No. 5 (5)	VOC	0.15	0.53
SR-1	Amine Reboiler No. 1	NO _x	2.50	10.95
		CO	2.10	9.20
		PM ₁₀	0.19	0.83
		VOC	0.14	0.61
		SO ₂	0.02	0.07
SR-2	Amine Reboiler No. 2 (8)	NO _x	3.38	14.80
		CO	2.84	12.44
		PM ₁₀	0.26	1.13
		VOC	0.19	0.81

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				lb/hr	TPY***
		SO ₂	0.02	0.09	
SV-1	Water Vaporizer	NO _x		0.42	1.85
		CO	0.36	1.55	
		PM ₁₀	0.03	0.14	
		VOC	0.02	0.10	
		SO ₂	0.01	0.01	
V-1	CO ₂ Recovery Column Vent	VOC		1.39	6.10
		H ₂ S	1.25	5.48	
CONLOAD	Condensate Truck Loading (6)	VOC		37.15	0.93
UTB	Utility Boiler	NO _x		0.41	1.80
		CO	0.35	1.51	
		PM ₁₀	0.03	0.14	
		VOC	0.02	0.10	
		SO ₂	0.01	0.01	
DEGEN	Emergency Diesel Generator (7)****	NO _x		5.81	2.55
		CO		7.16	3.14
		PM ₁₀	0.34	0.15	
		VOC	0.84	0.37	
		SO ₂	0.79	0.34	
FUG	Fugitives (4)	VOC		1.68	7.33
		H ₂ S	0.01	0.01	

(1) Emission point identification - either specific equipment designation or emission point number from a plot plan.

(2) Specific point source names. For fugitive sources, use an area name or fugitive source name.

- (3) NO_x - total oxides of nitrogen
CO - carbon monoxide
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.
VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
SO₂ - sulfur dioxide
H₂S - hydrogen sulfide

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- (4) Fugitive emissions are based on the fugitive component count and fugitive emission factors provided in the application.
(5) Originally authorized by Standard Exemption No. 106.352 in 1986.
(6) Originally authorized by Standard Exemption No. 106.473 in 1986.
(7) Originally authorized by Permit by Rule No. 106.511 in 2000.
(8) Modified under Permit by Rule No. 106.681 in 2000.

* Emission rates are based on and the facilities are limited by the following maximum operating schedule:

8,760 Hrs/year

** Annual emissions from GR-2 and GR-4 are based on operating 4,380 hrs/year.

*** Compliance with annual emission limits is based on a rolling 12-month period.

**** Annual emissions from DEGEN are based on and limited to an operating schedule of 876 hrs/year.

Dated August 23, 2002