

MAXMUM ALLOWABLE EMISSION RATES

Permit No. 9418

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EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

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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>	
			#/hr	TPY
GR-1	Glycol Reboiler No. 1 1.5 MMBtu/hr	NOx	0.21	0.46
		CO	0.04	0.09
		VOC	0.01	0.02
GR-2	Glycol Reboiler No. 2 2.0 MMBtu/hr	NOx	0.28	0.61
		CO	0.05	0.12
		VOC	0.02	0.03
GR-3	Glycol Reboiler No. 3 1.25 MMBtu/hr	NOx	0.17	0.38
		CO	0.04	0.08
		VOC	0.01	0.02
GR-4	Glycol Reboiler No. 4 3.6 MMBtu/hr	NOx	0.35	1.54
		CO	0.07	0.31
		VOC	0.02	0.08
GR-5	Glycol Reboiler No. 5 2.0 MMBtu/hr	NOx	0.28	0.61
		CO	0.06	0.12
		VOC	0.02	0.03
INC-1	Incinerator No. 1	NOx	0.21	0.46
		CO	0.04	0.09
		VOC	0.11	0.25
INC-2	Incinerator No. 2	NOx	0.51	2.23
		CO	0.10	0.45
		VOC	0.27	1.19

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T-1	Tank No. 1	VOC	0.16	0.71
T-2	Tank No. 2	VOC	0.16	0.71
T-3	Tank No. 3	VOC	0.16	0.71
T-4	Tank No. 4	VOC	0.16	0.71

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AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates*</u>	
			#/hr	TPY
SR-1	CO ₂ Removal Unit Reboiler 25.5 MMBtu/hr	NOx	3.48	15.26
		CO	0.87	3.81
		VOC	0.07	0.31
SR-2	Heater/Reboiler 31.5 MMBtu/hr	NOx	1.90	8.25
		CO	1.07	4.65
		VOC	0.09	0.37
		PM	0.16	0.67
SV-1	Water Vaporizer 4.3 MMBtu/hr	NOx	0.42	1.84
		CO	0.08	0.37
		VOC	0.02	0.10
V-1	CO ₂ Recovery Column Vent	VOC	1.40	6.10
		H ₂ S	1.26	5.48
UTB	Utility Boiler	NOx	0.41	1.79
		CO	0.09	0.36
		VOC	0.03	0.10
		PM	0.02	0.09
NGACM	Air Compressor	NOx	0.03	0.12
		CO	<0.01	0.03
		VOC	<0.01	<0.01
		PM	<0.01	<0.01
EMG	Emergency Generator	NOx	0.07	0.29
		CO	<0.01	0.06
		VOC	<0.01	0.02
		PM	<0.01	0.02
FUG	Fugitives	VOC	2.24	9.81

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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) VOC - volatile organic compounds as defined in General Rule 101.1
NOx - total oxides of nitrogen
CO - carbon monoxide
H₂S - hydrogen sulfide
PM - particulate matter

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

Hrs/day 24 Days/week 7 Weeks/year 52 or Hrs/year 8,760

NOTE: GR-1, GR-2, GR-3, GR-5 and INC-1 annual emissions were calculated based on operating 4,380 hours per year.

Revised _____