

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Number 83559

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>	
			lb/hr	TPY**
CE-04	Compressor Engine No. 4 Caterpillar G3612 (7)	NO _x	3.91	4.89
		CO	1.51	1.88
		SO ₂	0.02	0.02
		PM	0.24	0.30
		VOC	1.78	2.23
GEN-1	Generator Engine No. 5 Caterpillar G3516	NO _x	4.78	0.25
		CO	4.31	0.23
		SO ₂	0.01	0.01
		PM	0.08	0.01
		VOC	0.96	0.05
REB-01	TEG Reboiler with MEOH injection	NO _x	0.27	
		CO	0.23	
		SO ₂	0.01	
		PM	0.02	
		VOC	1.01	
REB-02	TEG Reboiler with MEOH injection	NO _x	0.27	
		CO	0.23	
		SO ₂	0.01	
		PM	0.02	
		VOC	1.01	
REB-03	TEG Reboiler with MEOH injection	NO _x	0.27	
		CO	0.23	
		SO ₂	0.01	
		PM	0.02	
		VOC	1.01	

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REB-04	TEG Reboiler with MEOH injection	NO _x	0.27	
		CO	0.23	
		SO ₂	0.01	
		PM	0.02	
		VOC	1.01	
TEG Reboilers with MEOH injection		NO _x		0.82
Annual Emissions Cap (5)		CO		0.69
EPNs REB-01-REB-04		SO ₂		0.01
		PM		0.06
		VOC		3.02
REB-01	TEG Reboiler without MEOH injection	NO _x	0.17	
		CO	0.14	
		SO ₂	0.01	
		PM	0.01	
		VOC	0.12	
REB-02	TEG Reboiler without MEOH injection	NO _x	0.17	
		CO	0.14	
		SO ₂	0.01	
		PM	0.01	
		VOC	0.12	
REB-03	TEG Reboiler without MEOH injection	NO _x	0.17	
		CO	0.14	
		SO ₂	0.01	
		PM	0.01	
		VOC	0.12	

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			lb/hr	TPY**
REB-04	TEG Reboiler without MEOH injection	NO _x	0.17	
		CO	0.14	
		SO ₂	0.01	
		PM	0.01	
		VOC	0.12	
TEG Reboiler without MEOH injection		NO _x		0.85
Annual Emissions Cap (6)		CO		0.72
EPNs REB-01-REB-04		SO ₂		0.01
		PM		0.06
		VOC		0.61
FLRSTK-01	Plant Flare Flash Emissions from Dehydration Plants	NO _x	5.28	10.63
		CO	10.54	21.22
		SO ₂	0.15	0.30
		PM	0.28	0.56
		VOC	1.33	2.68
FLRSTK-01	Plant Flare (MSS-01) Compressor Blowdowns	NO _x	25.68	4.61
		CO	51.27	9.20
		SO ₂	0.23	0.04
		PM	1.38	0.25
		VOC	4.90	0.88
FLRSTK-01	Plant Flare (MSS-02) Plant Blowdowns	NO _x	283.12	0.83
		CO	565.21	1.65
		SO ₂	2.52	0.01
		PM	15.22	0.04
		VOC	54.22	0.16
T-01	Oily Water Storage Tank	VOC	0.01	0.01

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			lb/hr	TPY**
T-02	Condensate Storage Tank	VOC	0.02	0.07
T-03	MEOH Storage Tank	VOC	2.90	0.08
T-04	TEG Storage Tank	VOC	0.08	0.01
T-05	Crankcase Oil Storage Tank	VOC	0.05	0.01
T-06	Cylinder Oil Storage Tank	VOC	0.05	0.01
T-07	Waste Oil Storage Tank	VOC	0.05	0.01
T-08	Engine Coolant Storage Tank	VOC	0.11	0.01
LOAD-01	Condensate Loading	VOC	14.01	0.01
LOAD-02	MEOH Loading	VOC	3.21	0.07
FLASH-01	Condensate Flash	VOC	1.66	7.27
FE-01	Plant Fugitives (4)	VOC	1.68	7.37

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- (1) Emission point identification - either specific equipment designation or emission point number (EPN) from plot plan.
- (2) Specific point source name. For fugitive sources use area name or fugitive source name.
- (3) NO_x - total oxides of nitrogen
CO - carbon monoxide
SO₂ - sulfur dioxide
PM - particulate matter, suspended in the atmosphere, including PM₁₀
PM₁₀ - particulate matter equal to or less than 10 microns in diameter. Where PM is not listed, it shall be assumed that no PM greater than 10 microns is emitted.
VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
- (4) Emissions rate is an estimate and is enforceable through compliance with the applicable special condition(s) and permit application representations.
- (5) Annual emissions from EPNs REB-01 through REB-04 with methyl alcohol (MEOH) injection shall not exceed those listed under "TEG Reboilers with MEOH injection."
- (6) Annual emissions from EPNs REB-01 through REB-04 without MEOH injections shall not exceed those listed under "TEG Reboilers without MEOH injection."
- (7) Emissions from EPN CE-04 is due to operating time of 2,500 hours per year (hrs/yr).

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

____Hrs/day ____Days/week ____Weeks/year or 8,760 Hrs/year

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

Dated August 2, 2010