

Emission Sources - Maximum Allowable Emission Rates

Permit Number 81228

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, sources, and related activities. 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	
			lbs/hour	TPY (4)
C-301 (6)	Caterpillar G3616 4,735 hp	NO _x	7.31	-
		CO	2.87	-
		VOC	2.81	-
		PM	0.36	-
		PM ₁₀	0.36	-
		PM _{2.5}	0.36	-
		SO ₂	0.02	-
		Formaldehyde	0.54	-
C-302 (6)	Caterpillar G3616 4,735 hp	NO _x	7.31	-
		CO	2.87	-
		VOC	2.81	-
		PM	0.36	-
		PM ₁₀	0.36	-
		PM _{2.5}	0.36	-
		SO ₂	0.02	-
		Formaldehyde	0.54	-

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C-303 (6)	Caterpillar G3616 4,735 hp	NO _x	7.31	-
		CO	2.87	-
		VOC	2.81	-
		PM	0.36	-
		PM ₁₀	0.36	-
		PM _{2.5}	0.36	-
		SO ₂	0.02	-
		Formaldehyde	0.54	-
C-304 (6)	Caterpillar G3616 4,735 hp	NO _x	7.31	-
		CO	2.87	-
		VOC	2.81	-
		PM	0.36	-
		PM ₁₀	0.36	-
		PM _{2.5}	0.36	-
		SO ₂	0.02	-
		Formaldehyde	0.54	-
C-305 (6)	Caterpillar G3616 4,735 hp	NO _x	7.31	-
		CO	2.87	-
		VOC	2.81	-
		PM	0.36	-
		PM ₁₀	0.36	-
		PM _{2.5}	0.36	-
		SO ₂	0.02	-
		Formaldehyde	0.54	-
C-301 (6) C-302	Caterpillar G3616 - All Engines Annual Emission Cap	NO _x	-	127.88

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		CO	-	50.24
		VOC	-	49.24
		PM	-	6.23
		PM ₁₀	-	6.23
		PM _{2.5}	-	6.23
		SO ₂	-	0.35
		Formaldehyde	-	9.50
G-1050	Emergency Generator Caterpillar G3408 680 hp	NO _x	5.34	0.27
		CO	3.91	0.20
		VOC	1.82	0.09
		PM	0.22	0.01
		PM ₁₀	0.22	0.01
		PM _{2.5}	0.22	0.01
		SO ₂	1.39	0.07
H-501	Line Heater 10 MMBtu/hr	NO _x	1.01	4.42
		CO	0.85	3.72
		VOC	0.08	0.36
		PM	0.08	0.33
		PM ₁₀	0.08	0.33
		PM _{2.5}	0.08	0.33
		SO ₂	0.01	0.03
M-701	Glycol Dehydrator Reboiler 2.5 MMBtu/hr	NO _x	0.25	-
		CO	0.21	-
		VOC	0.02	-
		PM	0.02	-

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		PM ₁₀	0.02	-
		PM _{2.5}	0.02	-
		SO ₂	<0.01	-
M-702	Glycol Dehydrator Reboiler 1.9 MMBtu/hr	NO _x	0.19	-
		CO	0.16	-
		VOC	0.02	-
		PM	0.01	-
		PM ₁₀	0.01	-
		PM _{2.5}	0.01	-
		SO ₂	<0.01	-
M-701 and M-702	Combined Annual Limits for the Glycol Dehydrator Reboilers	NO _x	-	0.79
		CO	-	0.67
		VOC	-	0.07
		PM	-	0.06
		PM ₁₀	-	0.06
		PM _{2.5}	-	0.06
		SO ₂	-	<0.01
M-701/702 SV	Pre-Flare Glycol Dehydrator Still Vent (7)	VOC	0.54	0.97
T-701	Triethylene Glycol Tank 16,800 gallons	VOC	0.01	0.01
T-800	Oil/Water Storage Tank 16,800 gallons	VOC	0.01	0.01
T-1600	Methanol Storage Tank 16,800 gallons	VOC	4.56	0.11
T-1810	Compressor Oil Storage Tank 1,600 gallons	VOC	0.01	0.01
T-1820	Coolant Storage Tank 1,600 gallons	VOC	0.01	0.01

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T-1840	Diesel Storage Tank 1,777.25 gallons	VOC	0.09	<0.01
T-1860	Process Liquid Storage Tank 8,460.30 gallons	VOC	9.90	2.05
T-1870	Lube Oil Storage Tank 1,600 gallons	VOC	0.01	0.01
T-1900	Used Oil Storage Tank 500 gallons	VOC	0.01	0.01
T-LDG	Truck Loading	VOC	4.11	0.47
C-VENT	Rod Packing	VOC	1.04	4.54
PNEU	Pneumatic Devices	VOC	0.25	1.08
VENT	Maintenance Blowdown	VOC	62.25	1.87
F-01 (5)	Fugitive Emissions	VOC	0.67	2.93
ECU-1	Flare (7)(8)	NO _x	0.09	0.33
		CO	0.18	0.66
		VOC	0.23	0.40
		SO ₂	0.01	0.01

- (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 Title 30 Texas Administrative Code § 101.1
NO_x - total oxides of nitrogen
SO₂ - sulfur dioxide
PM - total particulate matter
PM_{2.5} - particulate less than or equal to 2.5 microns
PM₁₀ - particulate less than or equal to 10 microns
CO - carbon monoxide
- (4) Compliance with annual emission limits (tons per year) is based on a 12-month rolling period.
- (5) Emission rate is an estimate and is enforceable through compliance with the applicable special condition(s) and permit application representations.
- (6) Pound per hour and annual emission rate includes maintenance, startup and shutdown (MSS) emissions.
- (7) Uncontrolled emissions from the glycol dehydrators are authorized until the start of operation of the flare.
- (8) The flare shall be installed one year from the issuance of TCEQ Project 307994 where uncontrolled emissions from (pre-flare) glycol dehydrators are forfeit.

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Date: April 7, 2020