

Emission Sources - Maximum Allowable Emission Rates

Permit Number 152783

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 (5)	
			lbs/hour	TPY (4)
ENG1	Caterpillar G3516 Tale Off Gas Compressor Engine 1	NO _x	4.78	19.38
		CO	1.48	6.50
		SO ₂	0.01	0.02
		PM	0.09	0.40
		PM ₁₀	0.09	0.40
		PM _{2.5}	0.09	0.40
		VOC	0.60	2.62
ENG5	Caterpillar G3516 Tale Off Gas Compressor Engine 2	NO _x	4.78	20.95
		CO	1.36	5.97
		SO ₂	0.01	0.02
		PM	0.09	0.40
		PM ₁₀	0.09	0.40
		PM _{2.5}	0.09	0.40
		VOC	0.65	2.83
ENG6	Caterpillar G3516B Off Gas Compressor Engine 3	NO _x	1.83	8.00
		CO	1.48	6.48
		SO ₂	0.01	0.03
		PM	0.10	0.44
		PM ₁₀	0.10	0.44
		PM _{2.5}	0.10	0.44
		VOC	1.38	6.06
ENG7	Caterpillar G3606 LE Off Gas Compressor Engine 4	NO _x	2.35	10.28
		CO	4.30	18.85
		SO ₂	0.01	0.03
		PM	0.13	0.59
		PM ₁₀	0.13	0.59
		PM _{2.5}	0.13	0.59
		VOC	1.04	4.58

Emission Sources - Maximum Allowable Emission Rates

ENG8	Caterpillar G3606 LE Off Gas Compressor Engine 5	NO _x	2.35	10.28
		CO	4.30	18.85
		SO ₂	0.01	0.03
		PM	0.13	0.59
		PM ₁₀	0.13	0.59
		PM _{2.5}	0.13	0.59
		VOC	0.70	3.05
ENG9	Caterpillar G3606 LE Inlet Gas Compressor Engine 1	NO _x	2.35	10.28
		CO	1.08	4.71
		SO ₂	0.01	0.03
		PM	0.13	0.59
		PM ₁₀	0.13	0.59
		PM _{2.5}	0.13	0.59
		VOC	0.50	2.19
ENG10	Caterpillar G3606 LE Inlet Gas Compressor Engine 2	NO _x	2.35	10.28
		CO	1.08	4.71
		SO ₂	0.01	0.03
		PM	0.13	0.59
		PM ₁₀	0.13	0.59
		PM _{2.5}	0.13	0.59
		VOC	0.50	2.19
ENG11	Caterpillar G3606 LE Inlet Gas Compressor Engine 3	NO _x	2.35	10.28
		CO	1.08	4.71
		SO ₂	0.01	0.03
		PM	0.13	0.59
		PM ₁₀	0.13	0.59
		PM _{2.5}	0.13	0.59
		VOC	0.50	2.19
ENG12	Caterpillar G3606 LE Inlet Gas Compressor Engine 4	NO _x	2.35	10.28
		CO	1.08	4.71

Emission Sources - Maximum Allowable Emission Rates

		SO ₂	0.01	0.03
		PM	0.12	0.52
		PM ₁₀	0.12	0.52
		PM _{2.5}	0.12	0.52
		VOC	2.05	9.00
ENG13	Caterpillar CG137-12 Condensate Pipeline Pump Engine	NO _x	0.93	4.06
		CO	2.65	11.59
		SO ₂	<0.01	0.01
		PM	0.05	0.22
		PM ₁₀	0.05	0.22
		PM _{2.5}	0.05	0.22
		VOC	0.93	4.06
ENG14	Caterpillar G3606 LE Inlet Gas Compressor Engine 5	NO _x	2.35	10.28
		CO	1.08	4.71
		SO ₂	0.01	0.03
		PM	0.12	0.52
		PM ₁₀	0.12	0.52
		PM _{2.5}	0.12	0.52
		VOC	2.05	9.00
ENG17	Caterpillar CG137-12 Condensate Pipeline Pump Engine	NO _x	0.93	4.06
		CO	2.65	11.59
		SO ₂	<0.01	0.01
		PM	0.05	0.22
		PM ₁₀	0.05	0.22
		PM _{2.5}	0.05	0.22
		VOC	0.93	4.06
TURB1	5 Combined Capstone C200NG Microturbines	NO _x	0.46	1.99
		CO	1.20	5.27
		SO ₂	<0.01	0.02
		PM	0.08	0.33
		PM ₁₀	0.08	0.33

Emission Sources - Maximum Allowable Emission Rates

		PM _{2.5}	0.08	0.33
		VOC	0.11	0.48
TURB2	5 Combined Capstone C200NG Microturbines	NO _x	0.46	1.99
		CO	1.20	5.27
		SO ₂	<0.01	0.02
		PM	0.08	0.33
		PM ₁₀	0.08	0.33
		PM _{2.5}	0.08	0.33
		VOC	0.11	0.48
HT1	Amine Reboiler	NO _x	1.52	6.66
		CO	1.28	5.59
		SO ₂	0.01	0.04
		PM	0.12	0.51
		PM ₁₀	0.12	0.51
		PM _{2.5}	0.12	0.51
		VOC	0.08	0.37
HT2	Glycol Reboiler 1 Gas Combustion	NO _x	0.10	0.43
		CO	0.08	0.36
		SO ₂	<0.01	<0.01
		PM	0.01	0.03
		PM ₁₀	0.01	0.03
		PM _{2.5}	0.01	0.03
		VOC	0.01	0.02
HT2 (HT2SV)	Glycol Reboiler 1 Uncombusted Still Vent	VOC	0.62	2.70
		H ₂ S	<0.01	<0.01
HT3	Condensate Stabilizer 1 Heater	NO _x	1.23	5.37
		CO	1.03	4.51
		SO ₂	0.01	0.03
		PM	0.09	0.41
		PM ₁₀	0.09	0.41
		PM _{2.5}	0.09	0.41
		VOC	0.07	0.30

Emission Sources - Maximum Allowable Emission Rates

HT4	Condensate Stabilizer 2 Heater	NO _x	0.54	2.36
		CO	0.45	1.98
		SO ₂	<0.01	0.01
		PM	0.04	0.18
		PM ₁₀	0.04	0.18
		PM _{2.5}	0.04	0.18
		VOC	0.03	0.13
HT5	Glycol Reboiler 2 Gas Combustion	NO _x	0.07	0.32
		CO	0.06	0.27
		SO ₂	<0.01	<0.01
		PM	0.01	0.02
		PM ₁₀	0.01	0.02
		PM _{2.5}	0.01	0.02
		VOC	<0.01	0.02
HT5 (HT5SV)	Glycol Reboiler 2 Uncombusted Still Vent	VOC	0.41	1.80
		H ₂ S	<0.01	<0.01
HT6	Glycol Reboiler 3 Gas Combustion	NO _x	0.15	0.64
		CO	0.12	0.54
		SO ₂	<0.01	<0.01
		PM	0.01	0.05
		PM ₁₀	0.01	0.05
		PM _{2.5}	0.01	0.05
		VOC	0.01	0.04
HT6 (HT6SV)	Glycol Reboiler 3 Uncombusted Still Vent	VOC	0.62	2.70
		H ₂ S	<0.01	<0.01
HT7	Condensate Stabilizer 3 Heater	NO _x	1.52	6.66
		CO	1.28	5.59
		SO ₂	0.01	0.04
		PM	0.12	0.51
		PM ₁₀	0.12	0.51

Emission Sources - Maximum Allowable Emission Rates

		PM _{2.5}	0.12	0.51
		VOC	0.08	0.37
HT8	Condensate Stabilizer 4 Heater	NO _x	0.54	2.36
		CO	0.45	1.98
		SO ₂	<0.01	0.01
		PM	0.04	0.18
		PM ₁₀	0.04	0.18
		PM _{2.5}	0.04	0.18
		VOC	0.03	0.13
HT9	Condensate Stabilizer 5 Heater	NO _x	1.03	4.51
		CO	0.86	3.79
		SO ₂	0.01	0.03
		PM	0.08	0.34
		PM ₁₀	0.08	0.34
		PM _{2.5}	0.08	0.34
		VOC	0.06	0.25
HT10	Glycol Reboiler 4 Gas Combustion	NO _x	0.07	0.32
		CO	0.06	0.27
		SO ₂	<0.01	<0.01
		PM	0.01	0.02
		PM ₁₀	0.01	0.02
		PM _{2.5}	0.01	0.02
		VOC	<0.01	0.02
HT10 (HT10SV)	Glycol Reboiler 4 Uncombusted Still Vent	VOC	0.41	1.80
		H ₂ S	<0.01	<0.01
FL1	Flare	NO _x	0.56	2.44

Maximum Normal Emissions

Emission Sources - Maximum Allowable Emission Rates

		CO	4.77	20.88
		SO ₂	54.89	240.42
		VOC	0.99	4.34
		H ₂ S	0.58	2.56
GRP-IFR	GROUP - Combined Internal Floating Roof Tanks	VOC	0.48	7.01
		H ₂ S	0.02	<0.01
TB1	16 Fixed Roof Condensate Tanks (Including 6 Swing Tanks)	VOC	13.47	3.99
		H ₂ S	<0.01	<0.01
TK1	Produced/Slop Water Tank 1 Fuel Gas Blanket & mVRU	VOC	2.63	0.59
		H ₂ S	<0.01	<0.01
TK2	Produced/Slop Water Tank 2 Fuel Gas Blanket & mVRU	VOC	2.63	0.59
		H ₂ S	<0.01	<0.01
TK3	Lube Oil	VOC	0.01	0.01
TK4	Antifreeze	VOC	<0.01	<0.01
TK5	Amine	VOC	<0.01	<0.01
TK6	Glycol	VOC	<0.01	<0.01
TK7	Methanol	VOC	0.20	0.20
TK8	Diesel	VOC	0.01	0.01
TK9	Used Oil	VOC	0.01	0.01
LD1	Condensate Truck Loading	VOC	15.44	30.76
		H ₂ S	<0.01	<0.01
LD2	Produced/Slop Water Truck Loading	VOC	0.77	2.11
		H ₂ S	<0.01	<0.01
FUG1	Facilities Fugitive Emissions	VOC	5.59	24.46
		H ₂ S	<0.01	<0.01
Scheduled Maintenance Startup and Shutdown (MSS)				
MSSVENT1	Inlet Gas Compressors	VOC	17.20	0.86
(IGCOMP)	MSS Vents to Atmosphere			

Emission Sources - Maximum Allowable Emission Rates

		H ₂ S	0.01	<0.01
MSSVENT2 (OGCOMP)	Off-Gas Compressor MSS Vents to Atmosphere	VOC	106.35	11.96
		H ₂ S	0.02	<0.01
MSSVENT3 (PLANT)	Non-Compressor Plant Equipment MSS Vents to Atmosphere	VOC	606.24	3.03
		H ₂ S	0.12	<0.01
MSSVENT4 (PIGREC)	Pig Receivers MSS Vents to Atmosphere	VOC	8.90	3.47
		H ₂ S	<0.01	<0.01
FL2	Waste Streams Emission Cap	NO _x	104.21	12.62
		CO	208.17	25.72
		SO ₂	6.41	0.81
		VOC	282.31	35.57
		H ₂ S	0.09	0.04
MSSVENT5 (IFRLAND)	Internal Floating Roof Tanks Roof Landing MSS Emissions	VOC	42.52	2.48
		H ₂ S	0.01	<0.01
MSSVENT6 (HOSEDISC)	Y-Grade Hose Disconnections	VOC	0.36	0.13

- (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, suspended in the atmosphere, including PM₁₀ and PM_{2.5}, as represented
 PM₁₀ - total particulate matter equal to or less than 10 microns in diameter, including PM_{2.5}, as represented
 PM_{2.5} - particulate matter equal to or less than 2.5 microns in diameter
 CO - carbon monoxide
 H₂S - hydrogen sulfide
- (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.

Date: April 6, 2021