

Emission Sources - Maximum Allowable Emission Rates

Permit Number 124621

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)
ENG-1	ENG-1 4735 hp CAT G3616TALE	NO _x	5.22	22.86
		CO	2.02	8.82
		VOC	5.69	24.92
		PM	0.31	1.37
		PM ₁₀	0.31	1.37
		PM _{2.5}	0.31	1.37
		SO ₂	0.02	0.08
		HAP	0.19	0.82
ENG-2	ENG-2 4735 hp CAT G3616TALE	NO _x	5.22	22.86
		CO	2.02	8.82
		VOC	5.69	24.92
		PM	0.31	1.37
		PM ₁₀	0.31	1.37
		PM _{2.5}	0.31	1.37
		SO ₂	0.02	0.08
		HAP	0.19	0.82
ENG-3	ENG-3 4735 hp CAT G3616TALE	NO _x	5.22	22.86
		CO	2.02	8.82
		VOC	5.69	24.92
		PM	0.31	1.37
		PM ₁₀	0.31	1.37
		PM _{2.5}	0.31	1.37
		SO ₂	0.02	0.08
		HAP	0.19	0.82
ENG-4	ENG-4	NO _x	5.22	22.86

Emission Sources - Maximum Allowable Emission Rates

		CO	2.02	8.82
		VOC	5.69	24.92
		PM	0.31	1.37
		PM ₁₀	0.31	1.37
		PM _{2.5}	0.31	1.37
		SO ₂	0.02	0.08
		HAP	0.19	0.82
ENG-5	ENG-5 4735 hp CAT G3616TALE	NO _x	5.22	22.86
		CO	2.02	8.82
		VOC	5.69	24.92
		PM	0.31	1.37
		PM ₁₀	0.31	1.37
		PM _{2.5}	0.31	1.37
		SO ₂	0.02	0.08
		HAP	0.19	0.82
ENG-6	ENG-6 4735 hp CAT G3616TALE	NO _x	5.22	22.86
		CO	2.02	8.82
		VOC	5.69	24.92
		PM	0.31	1.37
		PM ₁₀	0.31	1.37
		PM _{2.5}	0.31	1.37
		SO ₂	0.02	0.08
		HAP	0.19	0.82
HTR-1	HTR-1 64 MMBtu/hr Hot Oil Heater	NO _x	1.92	8.41
		CO	1.92	8.41
		VOC	0.35	1.54
		PM	0.49	2.13
		PM ₁₀	0.49	2.13
		PM _{2.5}	0.49	2.13

Emission Sources - Maximum Allowable Emission Rates

		SO ₂	0.04	0.17
HTR-2	HTR-2 9.6 MMBtu/hr Regen Gas Heater	NO _x	0.96	4.20
		CO	0.81	3.53
		VOC	0.05	0.23
		PM	0.07	0.32
		PM ₁₀	0.07	0.32
		PM _{2.5}	0.07	0.32
		SO ₂	0.01	0.03
HTR-3	HTR-3 20 MMBtu/hr Hot Oil Heater	NO _x	2.00	8.76
		CO	1.68	7.36
		VOC	0.11	0.48
		PM	0.15	0.67
		PM ₁₀	0.15	0.67
		PM _{2.5}	0.15	0.67
		SO ₂	0.01	0.05
FLARE	FLARE	NO _x	0.40	0.96
		CO	0.80	1.93
		VOC	1.40	0.64
		SO ₂	<0.01	<0.01
RTO-1	RTO-1 Regenerative Thermal Oxidizer	NO _x	0.88	3.87
		CO	0.53	2.30
		VOC	1.12	4.93
		PM	0.05	0.21
		PM ₁₀	0.05	0.21
		PM _{2.5}	0.05	0.21
		SO ₂	24.26	106.01
		H ₂ S	0.13	0.56
TO-2	TO-2 Truck Loading Thermal Oxidizer	NO _x	0.26	1.19
		CO	0.45	2.00

Emission Sources - Maximum Allowable Emission Rates

		VOC	0.01	0.04
		PM	0.04	0.18
		PM ₁₀	0.04	0.18
		PM _{2.5}	0.04	0.18
		SO ₂	<0.01	<0.01
FUG-1	Fugitives (5)	VOC	0.74	3.21
		H ₂ S	<0.01	<0.01
LOAD-1	LOAD-1 Truck Loading Fugitive	VOC	0.92	0.30
LOAD-2	LOAD-2 NGL Unloading	VOC	2.28	2.08
LOAD-3	Slop Oil Loading	VOC	0.56	0.01
TANK-7	Amine Storage	VOC	0.06	<0.01
TANK-8	Glycol Storage	VOC	0.03	<0.01
TANK-9	Used Lube Oil Storage	VOC	0.23	<0.01
TANK-10	Gasoline Tank	VOC	6.36	0.15
TANK-11	Methanol Tank	VOC	2.88	0.03
TANK-12	Diesel Tank	VOC	0.06	<0.01
TANK-710	Slop Oil Tank	VOC	0.93	0.01
ENG-7	4734 hp CAT G3616TALE	NO _x	5.22	22.86
		CO	2.02	8.82
		VOC	1.97	8.64
		PM	0.32	1.40
		PM ₁₀	0.32	1.40
		PM _{2.5}	0.32	1.40
		SO ₂	0.02	0.08
		HAP	0.37	1.60
ENG-8	4735 hp CAT G3616TALE	NO _x	5.22	22.86
		CO	2.02	8.82
		VOC	1.97	8.64

Emission Sources - Maximum Allowable Emission Rates

		PM	0.32	1.40
		PM ₁₀	0.32	1.40
		PM _{2.5}	0.32	1.40
		SO ₂	0.02	0.08
		HAP	0.37	1.60
ENG-9	4735 hp CAT G3616TALE	NO _x	5.22	22.86
		CO	2.02	8.82
		VOC	1.97	8.64
		PM	0.32	1.40
		PM ₁₀	0.32	1.40
		PM _{2.5}	0.32	1.40
		SO ₂	0.02	0.08
		HAP	0.37	1.60
ENG-10	4735 hp CAT G3616TALE	NO _x	5.22	22.86
		CO	2.02	8.82
		VOC	1.97	8.64
		PM	0.32	1.40
		PM ₁₀	0.32	1.40
		PM _{2.5}	0.32	1.40
		SO ₂	0.02	0.08
		HAP	0.37	1.60
ENG-11	4735 hp CAT G3616TALE	NO _x	5.22	22.86
		CO	2.02	8.82
		VOC	1.97	8.64
		PM	0.32	1.40
		PM ₁₀	0.32	1.40
		PM _{2.5}	0.32	1.40
		SO ₂	0.02	0.08
		HAP	0.37	1.60

Emission Sources - Maximum Allowable Emission Rates

ENG-12	4735 hp CAT G3616TALE	NO _x	5.22	22.86
		CO	2.02	8.82
		VOC	1.97	8.64
		PM	0.32	1.40
		PM ₁₀	0.32	1.40
		PM _{2.5}	0.32	1.40
		SO ₂	0.02	0.08
		HAP	0.37	1.60
HTR-4	40 MMBtu/hr Mole Sieve Regen Heater	NO _x	1.44	6.31
		CO	1.20	5.26
		VOC	0.22	0.94
		PM	0.30	1.31
		PM ₁₀	0.30	1.31
		PM _{2.5}	0.30	1.31
		SO ₂	0.02	0.10
		HAP	<0.01	0.01
HTR-5	99 MMBtu/hr Hot Oil Heater	NO _x	3.56	15.61
		CO	2.97	13.01
		VOC	0.53	2.34
		PM	0.74	3.23
		PM ₁₀	0.74	3.23
		PM _{2.5}	0.74	3.23
		SO ₂	0.06	0.26
		HAP	<0.01	0.03
HTR-6	20 MMBtu/hr Stabilization Heater	NO _x	0.72	3.15
		CO	1.65	7.21
		VOC	0.11	0.47
		PM	0.15	0.65
		PM ₁₀	0.15	0.65

Emission Sources - Maximum Allowable Emission Rates

		PM _{2.5}	0.15	0.65
		SO ₂	0.01	0.05
		HAP	<0.01	<0.01
HTR-7	3.0 MMBtu/hr Glycol Regen Heater	NO _x	0.11	0.47
		CO	0.25	1.08
		VOC	0.02	0.07
		PM	0.02	0.10
		PM ₁₀	0.02	0.10
		PM _{2.5}	0.02	0.10
		SO ₂	<0.01	0.01
		HAP	<0.01	<0.01
HTR-8	26 MMBtu/hr Trim Reboiler Heater	NO _x	0.94	4.10
		CO	2.14	9.38
		VOC	0.14	0.61
		PM	0.19	0.85
		PM ₁₀	0.19	0.85
		PM _{2.5}	0.19	0.85
		SO ₂	0.02	0.07
		HAP	<0.01	<0.01
RTO-2	RTO-2 Regenerative Thermal Oxidizer	NO _x	1.14	4.99
		CO	0.26	1.13
		VOC	0.44	1.94
		PM	0.06	0.27
		PM ₁₀	0.06	0.27
		PM _{2.5}	0.06	0.27
		SO ₂	27.56	120.71
		H ₂ S	0.15	0.64
VCU-2	VCU-2 Vapor Combustor Unit	NO _x	0.40	0.48
		CO	0.05	0.06

Emission Sources - Maximum Allowable Emission Rates

		VOC	2.59	2.64
		PM	0.05	0.06
		PM ₁₀	0.05	0.06
		PM _{2.5}	0.05	0.06
		SO ₂	<0.01	0.02
		H ₂ S	<0.01	<0.01
LOAD-6	LOAD-6 Condensate Truck Loading Fugitive	VOC	2.66	0.22
LOAD-4	LOAD-4 Used Lube Oil Truck Loading	VOC	0.21	<0.01
LOAD-5	LOAD-5 Wastewater Truck Loading	VOC	0.56	<0.01
FLARE-2	FLARE-2 Flare	NO _x	1.35	1.10
		CO	2.69	2.17
		VOC	6.01	2.65
		SO ₂	27.56	12.07
		H ₂ S	0.29	0.13
WSAC	Wet Surface Air Condenser	PM	0.10	0.42
		PM ₁₀	0.10	0.42
		PM _{2.5}	0.10	0.42
TANK-27	TANK-27 Bulk Lube Oil Tank	VOC	0.35	<0.01
TANK-28	Engine Lube Oil Tank	VOC	0.35	<0.01
TANK-29	Used Lube Oil Tank	VOC	0.35	<0.01
TANK-13	Water/Antifreeze Tank	VOC	0.08	<0.01
TANK-15	Glycol Tank	VOC	0.04	0.09
TK-DIESEL	Diesel Fuel Storage Tank	VOC	<0.01	<0.01
TK-GAS	Gasoline Fuel Storage Tank	VOC	0.08	0.07
TANK-21	Compressor Oil Day Tank	VOC	0.01	<0.01

Emission Sources - Maximum Allowable Emission Rates

TANK-22	Compressor Oil Day Tank	VOC	0.01	<0.01
TANK-23	Compressor Oil Day Tank	VOC	0.01	<0.01
TANK-24	Compressor Oil Day Tank	VOC	0.01	<0.01
TANK-25	Compressor Oil Day Tank	VOC	0.01	<0.01
TANK-26	Compressor Oil Day Tank	VOC	0.01	<0.01
FUG-2	Fugitives (5)	VOC	2.36	10.34
		H ₂ S	<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, 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
HAP - hazardous air pollutant as listed in § 112(b) of the Federal Clean Air Act or Title 40 Code of Federal Regulations Part 63, Subpart C
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: July 13, 2018