

# Emission Sources - Maximum Allowable Emission Rates

Permit Number 124717

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)
Train 1				
ENG-1	Caterpillar 3616-4735 BHP	NO <sub>x</sub>	5.22	22.86
		CO	2.01	8.80
		VOC	6.26	27.42
		PM	0.32	1.40
		PM <sub>10</sub>	0.32	1.40
		PM <sub>2.5</sub>	0.32	1.40
		SO <sub>2</sub>	0.02	0.09
ENG-2	Caterpillar 3616-4735 BHP	NO <sub>x</sub>	5.22	22.86
		CO	2.01	8.80
		VOC	6.26	27.42
		PM	0.32	1.40
		PM <sub>10</sub>	0.32	1.40
		PM <sub>2.5</sub>	0.32	1.40
		SO <sub>2</sub>	0.02	0.09
ENG-3	Caterpillar 3616-4735 BHP	NO <sub>x</sub>	5.22	22.86
		CO	2.01	8.80
		VOC	6.26	27.42
		PM	0.32	1.40
		PM <sub>10</sub>	0.32	1.40
		PM <sub>2.5</sub>	0.32	1.40
		SO <sub>2</sub>	0.02	0.09

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ENG-4	Caterpillar 3616-4735 BHP	NO <sub>x</sub>	5.22	22.86
		CO	2.01	8.80
		VOC	6.26	27.42
		PM	0.32	1.40
		PM <sub>10</sub>	0.32	1.40
		PM <sub>2.5</sub>	0.32	1.40
		SO <sub>2</sub>	0.02	0.09
ENG-5	Caterpillar 3616-4735 BHP	NO <sub>x</sub>	5.22	22.86
		CO	2.01	8.80
		VOC	6.26	27.42
		PM	0.32	1.40
		PM <sub>10</sub>	0.32	1.40
		PM <sub>2.5</sub>	0.32	1.40
		SO <sub>2</sub>	0.02	0.09
ENG-6	Caterpillar 3616-4735 BHP	NO <sub>x</sub>	5.22	22.86
		CO	2.01	8.80
		VOC	6.26	27.42
		PM	0.32	1.40
		PM <sub>10</sub>	0.32	1.40
		PM <sub>2.5</sub>	0.32	1.40
		SO <sub>2</sub>	0.02	0.09
TK-1	Compressor Lube Oil Storage Tank	VOC	0.36	<0.01
TK-2	Engine Lube Oil Storage Tank	VOC	0.36	<0.01
TK-3	Used Lube Oil Storage Tank	VOC	0.36	<0.01
TK-6	Antifreeze/Water Storage Tank	VOC	0.08	<0.01
TK-8	Glycol Storage Tank	VOC	<0.01	<0.01
TK-DIESEL	Diesel Fuel	VOC	0.02	<0.01

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TK-GAS	Gasoline Fuel Storage Tank	VOC	5.44	0.11
H-1	Mole Sieve Regen. Heater	NO <sub>x</sub>	0.62	2.73
		CO	0.86	3.75
		VOC	0.06	0.25
		PM	0.08	0.34
		PM <sub>10</sub>	0.08	0.34
		PM <sub>2.5</sub>	0.08	0.34
		SO <sub>2</sub>	0.01	0.03
H-2	Cryo Hot Oil Heater	NO <sub>x</sub>	1.58	6.91
		CO	2.17	9.49
		VOC	0.14	0.62
		PM	0.20	0.86
		PM <sub>10</sub>	0.20	0.86
		PM <sub>2.5</sub>	0.20	0.86
		SO <sub>2</sub>	0.02	0.07
H-3	Amine Hot Oil Heater	NO <sub>x</sub>	5.40	23.65
		CO	7.41	32.46
		VOC	1.62	7.10
		PM	0.67	2.94
		PM <sub>10</sub>	0.67	2.94
		PM <sub>2.5</sub>	0.67	2.94
		SO <sub>2</sub>	0.09	0.40

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H-4	Condensate Stabilization Heater	NO <sub>x</sub>	0.42	1.84
		CO	0.58	2.52
		VOC	0.04	0.17
		PM	0.05	0.23
		PM <sub>10</sub>	0.05	0.23
		PM <sub>2.5</sub>	0.05	0.23
		SO <sub>2</sub>	<0.01	0.02
H-5	Glycol Regen. Heater	NO <sub>x</sub>	0.18	0.79
		CO	0.25	1.08
		VOC	0.02	0.07
		PM	0.02	0.10
		PM <sub>10</sub>	0.02	0.10
		PM <sub>2.5</sub>	0.02	0.10
		SO <sub>2</sub>	<0.01	0.01
		Formaldehyde	<0.01	<0.01
		HAPS	0.01	0.03
CT-1	Wet Surface Air Condenser	PM	0.27	1.20
		PM <sub>10</sub>	0.27	1.20
		PM <sub>2.5</sub>	0.27	1.20
FL-1	Plant Flare	NO <sub>x</sub>	12.09	11.80
		CO	24.13	24.01
		VOC	73.45	27.74
		SO <sub>2</sub>	<0.01	0.20
		H <sub>2</sub> S	<0.01	<0.01
		Formaldehyde	<0.01	<0.01
		HAPS	2.99	1.95

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FL-2	Plant Flare - Nonassisted	NO <sub>x</sub>	23.41	10.45
		CO	46.76	21.46
		VOC	2.35	1.03
		SO <sub>2</sub>	24.64	10.79
		H <sub>2</sub> S	0.26	0.11
		Formaldehyde	0.01	0.01
		HAPS	2.32	1.02
RTO-1	Regenerative Thermal Oxidizer	NO <sub>x</sub>	0.94	4.11
		CO	1.05	4.60
		VOC	1.24	5.44
		PM	0.07	0.31
		PM <sub>10</sub>	0.07	0.31
		PM <sub>2.5</sub>	0.07	0.31
		SO <sub>2</sub>	24.64	107.94
		H <sub>2</sub> S	0.13	0.57
FL-3	Enclosed Flare	NO <sub>x</sub>	1.41	2.28
		CO	2.81	4.52
		VOC	8.09	10.59
		SO <sub>2</sub>	<0.01	<0.01
		H <sub>2</sub> S	<0.01	<0.01
		Formaldehyde	<0.01	<0.01
L-1	Slop Oil Loading	VOC	0.12	<0.01
L-2	Condensate Loading Fugitives	VOC	1.03	1.10
L-4	Slop Water Loading	VOC	1.45	0.46
L-5	Material Unloading Fugitives	VOC	1.64	7.19
FUG-1 (5)	Train 1 Fugitive Emissions	VOC	1.72	7.54
		H <sub>2</sub> S	<0.01	0.02

(1) Emission point identification - either specific equipment designation or emission point number from plot plan.

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- (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<sub>x</sub> - total oxides of nitrogen
- SO<sub>2</sub> - sulfur dioxide
- H<sub>2</sub>S - hydrogen sulfide
- PM - total particulate matter, suspended in the atmosphere, including PM<sub>10</sub> and PM<sub>2.5</sub>, as represented
- PM<sub>10</sub> - total particulate matter equal to or less than 10 microns in diameter, including PM<sub>2.5</sub>, as represented
- PM<sub>2.5</sub> - particulate matter equal to or less than 2.5 microns in diameter
- CO - carbon monoxide
- HAPS - hazardous air pollutants
- (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 2, 2021