

## Emission Sources - Maximum Allowable Emission Rates

Permit Number 20418

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 (8)
EP-1	CM-1 Reciprocating Engine	NO <sub>x</sub>	8.27	36.21
		CO	8.82	38.62
		VOC	1.10	4.83
		SO <sub>2</sub>	0.01	0.05
		PM	0.18	0.78
EP-2	CM-2 Reciprocating Engine	NO <sub>x</sub>	8.27	36.21
		CO	8.82	38.62
		VOC	1.10	4.83
		SO <sub>2</sub>	0.01	0.05
		PM	0.18	0.78
EP-3	CM-3 Reciprocating Engine	NO <sub>x</sub>	8.27	36.21
		CO	8.82	38.62
		VOC	1.10	4.83
		SO <sub>2</sub>	0.01	0.05
		PM	0.18	0.78
EP-4	CM-4 Reciprocating Engine	NO <sub>x</sub>	8.27	36.21
		CO	8.82	38.62
		VOC	1.10	4.83
		SO <sub>2</sub>	0.01	0.05
		PM	0.18	0.78
EP-5	CM-5 Reciprocating Engine	NO <sub>x</sub>	8.27	36.21

Emission Sources - Maximum Allowable Emission Rates

		CO	8.82	38.62
		VOC	1.10	4.83
		SO <sub>2</sub>	0.01	0.05
		PM	0.18	0.78
EP-6	CM-6 Reciprocating Engine	NO <sub>x</sub>	4.46	19.55
		CO	8.93	39.11
		VOC	0.60	2.61
		SO <sub>2</sub>	0.01	0.03
		PM	0.10	0.44
EP-7	CM-7 Reciprocating Engine	NO <sub>x</sub>	4.46	19.55
		CO	8.93	39.11
		VOC	0.60	2.61
		SO <sub>2</sub>	0.01	0.03
		PM	0.10	0.44
EP-8	CM-8 Reciprocating Engine	NO <sub>x</sub>	4.46	19.55
		CO	8.93	39.11
		VOC	0.60	2.61
		SO <sub>2</sub>	0.01	0.03
		PM	0.10	0.44
EP-9	Heater (7)	NO <sub>x</sub>	1.56	6.83
		CO	1.04	4.56
		VOC	0.13	0.57

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		SO <sub>2</sub>	0.03	0.11
		PM	0.29	1.25
EP-10	Flare	NO <sub>x</sub>	1.12	0.19
		CO	9.59	1.61
		VOC	0.04	0.01
		SO <sub>2</sub>	2,555.87	202.00
		H <sub>2</sub> S	27.14	2.19
EP-11	SRU Incinerator	NO <sub>x</sub>	0.43	1.88
		CO	2.50	10.95
		VOC	0.01	0.01
		SO <sub>2</sub>	38.50	168.63
		H <sub>2</sub> S	0.04	0.18
		CS <sub>2</sub>	0.01	0.05
		COS	0.01	0.01
EP-11	SRU Incinerator (5)	NO <sub>x</sub>	0.43	0.04
		CO	2.50	0.22
		VOC	0.01	0.01
		SO <sub>2</sub>	72.40	6.35
		H <sub>2</sub> S	0.04	0.01
		CS <sub>2</sub>	0.01	0.01
		COS	0.01	0.01
EP-12	Tank Truck Loading	VOC	1.01	0.01
EP-13	Auxiliary Boiler	NO <sub>x</sub>	0.27	1.19
		CO	0.23	1.00
		VOC	0.02	0.07
		SO <sub>2</sub>	0.01	0.01

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		PM	0.02	0.09
EP-14	Emergency Diesel Generator	NO <sub>x</sub>	8.86	0.89
		CO	0.72	0.07
		VOC	0.23	0.02
		SO <sub>2</sub>	0.81	0.08
		PM	0.89	0.10
WT-2	Amine Wastewater Tank	VOC	0.21	0.01
WT-3	Slop Oil Tank	VOC	0.10	0.01
WT-4	MDEA Wastewater Tank	VOC	0.24	0.01
FUG	Fugitive (4)	VOC	3.481	15.245
		H <sub>2</sub> S	0.02	0.07
A001	Fugitives, West Panhandle Separator Porus Media Filter (7/29/1993)(6)	VOC	0.09	0.38
		H <sub>2</sub> S	0.01	0.01
A001	Fugitives, MDEA Flash Tank (11/14/1994)(6)	VOC	0.01	0.03
		H <sub>2</sub> S	0.01	0.02
A001	Fugitives, 213 Aerial Cooler (3/24/1995)(6)	VOC	0.02	0.08
A001	Fugitives, Propane Aerial Cooler (05/05/1995)(6)	VOC	0.01	0.05
A001	Fugitives, Anadarko Gas Processing (8/1/2002)(6)	VOC	0.02	0.10
A001	Fugitives, NGL Contactor (8/11/1999)(6)	VOC	0.01	0.01
EP-11	NGL Contactor (8/11/1999)(6)	SO <sub>2</sub>	2.15	9.40
A001	Fugitives, NGL Pump Replacement (8/1/2002)(6)	VOC	0.02	0.09
EP-10	Flare (dehy still, educator, Dermie Cold Box and MSS; 09/26/2014; PBR No. 51610)(6)	VOC	501.64	22.23
		SO <sub>2</sub>	1,154.51	24.89

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		NO <sub>x</sub>	250.01	17.45
		CO	499.11	34.83
		H <sub>2</sub> S	12.53	0.27
FUG	Fugitives, Flare (dehy, still, educator, Derime Cold Box and MSS; 09/26/2014; PBR No. 51610)(6)	VOC	0.08	0.36
AFT-1	Anitfoulant Tank (4/8/2002)(6)	VOC	0.01	0.01
DT-1	Diesel Tank (12/3/2002)(6)	VOC	0.01	0.01
PW-1	Parts Washer (11/14/2002)(6)	VOC	0.01	0.01
LOT-1	Lube Oil Tank (12/3/2002)(6)	VOC	0.01	0.01
EGT-1	Antifreeze Tank (12/3/2002)(6)	VOC	0.01	0.01
MT-1	Methanol Tanks (12/3/2002)(6)	VOC	0.04	0.15
LAB001	Lab Vent (3/1/1992)(6)	VOC	0.01	0.01
		H <sub>2</sub> S	0.02	0.07
EP-14	Emergency Diesel Generator(6)	NO <sub>x</sub>	8.86	2.99
		CO	0.72	0.24
		VOC	0.23	0.08
		SO <sub>2</sub>	0.81	0.27
		PM	0.89	0.29

- (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<sub>x</sub> - total oxides of nitrogen  
SO<sub>2</sub> - sulfur dioxide  
PM - total particulate matter, suspended in the atmosphere, including PM<sub>10</sub> and PM<sub>2.5</sub>, as represented  
CO - carbon monoxide  
H<sub>2</sub>S - hydrogen sulfide  
C<sub>2</sub>S - carbon disulfide  
COS - carbonylsulfide  
(4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.  
(5) Emission rates for SRU Incinerator for those times when the TGCU is down and the SRU continues to process acid gas (limited to 175 hours per year on 12-month rolling basis) as outlined in Special Condition No. 10.  
(6) EPN: EP 10, EPN: FUG (Flare: dehy still, eductor, Derime Cold Box and MSS) are authorized under Permit by Rule Number 51610. EPN: EP-11 and EPN: FUG (NGL Contactor) are authorized under Permit by Rule Number 42106.

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EPN: A001 Fugitives from West Panhandle Filter Separator are authorized under Standard Exemption X23077. EPN: A001 MDEA Flash Tank and Fugitives are authorized under Standard Exemption X27053. EPN: A001 Fugitives from 213 Aerial Cooler are authorized under Standard Exemption X28862. EPN: A001 Fugitives from the Propane Aerial Cooler, are authorized under a non-registered Standard Exemption 66. EPN: PW-1 PartsWasher are authorized under a non-registered PBR Claim § 106.454. EPN: A001 Fugitives from the Anadarko Gas Processing and NGL Pump Replacement are authorized under a non registered Permit by Rule § 106.352 claim. EPNs: AFT-1, DT-1, LOT-1, EGT-1, MT-1 Tanks are authorized under a non registered Permit by Rule § 106.352 claim. EPN: EP-14 (Emergency Diesel Generator, 876 hours/year) is authorized under a non-registered Permit by Rule § 106.511 claim. EPN: LAB001 is authorized under a non- registered Standard Exemption 34. The EPNs are not authorized by this permit. The EPNs are shown for reference only.

- (7) EPN: EP-9 Heater is physically limited to 26 MMBtu/hr. Emission calculations are based on this limitation.
- (8) Compliance with annual emission limits (tons per year) is based on a 12 month rolling period.
- (9) Emission rate is an estimate and is enforceable through compliance with the applicable special condition(s) and permit application representations.

Date: April 14, 2017