EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Numbers 20418 and PSD-TX-787M2

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. Any proposed increase in emission rates may require an application for a modification of the facilities covered by this permit.

Emission *	Source	Air Contaminant	<u>Emission</u>	Rates
Point No. (1)	Name (2) TPY**	Name (3)	lb/hr	
EP-1	CM-1 Reciprocating Engine	NO_x CO VOC SO_2 PM	8.27 8.82 1.10 0.01 0.18	36.21 38.62 4.83 0.05 0.78
EP-2	CM-2 Reciprocating Engine	NO_{x} CO VOC SO_{2} PM	8.27 8.82 1.10 0.01 0.18	36.21 38.62 4.83 0.05 0.78
EP-3	CM-3 Reciprocating Engine	NO_{x} CO VOC SO_{2} PM	8.27 8.82 1.10 0.01 0.18	36.21 38.62 4.83 0.05 0.78
EP-4	CM-4 Reciprocating Engine	NO_{x} CO VOC SO_{2} PM	8.27 8.82 1.10 0.01 0.18	36.21 38.62 4.83 0.05 0.78
EP-5	CM-5 Reciprocating Engine	NO _x CO VOC	8.27 8.82 1.10	36.21 38.62 4.83

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Emission	Source	Air Contaminant	<u>Emissio</u>	n Rates *
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY**
EP-6	CM-6 Reciprocating	NO_x	4.46	19.55
	Engine	CO	8.93	39.11
	_	VOC	0.60	2.61
		SO_2	0.01	0.03
		PM	0.10	0.44
EP-7	CM-7 Reciprocating	NO_{x}	4.46	19.55
	Engine	CO	8.93	39.11
	5	VOC	0.60	2.61
		SO ₂	0.01	0.03
		PM	0.10	0.44
		111	0.10	0.44
EP-8	CM-8 Reciprocating	NO_x	4.46	19.55
	Engine .	CO	8.93	39.11
	•	VOC	0.60	2.61
		SO_2	0.01	0.03
		PM	0.10	0.44
EP-9	Heater	NO_x	1.56	6.83
		CO	1.04	4.56
		VOC	0.13	0.57
		SO_2	0.03	0.11
		PM	0.29	1.25
EP-10	Flare	NO_{x}	1.12	0.19
		CO	9.59	1.61
		VOC	0.04	0.01
		SO ₂	2,555.87	202.00
		H ₂ S	27.14	2.19
		1125	∠1 . ± 1	2.13
EP-11	SRU Incinerator	NO_x	0.43	1.88
		CO	2.50	10.95

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VOC	0.01	0.01
SO ₂	38.50	168.63
H_2S	0.04	0.18
CS ₂	0.01	0.05
COS	0.01	0.01

Emission *	Source	Air Contaminant	<u>Emission</u>	Rates
<u> </u>	Name (2)	Name (3)	lb/hr	
	TPY**			
EP-11	SRU Incinerator(5)	NO_x $CO 2.50$ VOC SO_2 H_2S CS_2 COS	0.43 0.22 0.01 72.40 0.04 0.01	0.04 0.01 6.35 0.01 0.01
EP-12	Tank Truck Loading	VOC	1.01	0.01
EP-13	Auxiliary Boiler	NO_{x} CO VOC SO_{2} PM	0.27 0.23 0.02 0.01 0.02	1.19 1.00 0.07 0.01 0.09
EP-14	Emergency Diesel Generator	NO_x CO VOC SO_2 PM	8.86 0.72 0.23 0.81 0.89	0.89 0.07 0.02 0.08 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 H₂S	3.81 0.02	16.68 0.07

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A001	Fugitives, West Panhandle 0.38	VOC	0.09
	Separator Porus Media H₂S Filter (7/29/1993)(6)	0.01	0.01

Emission *	Source	Air Contaminant	<u>Emission</u>	Rates
<u>*</u> Point No. (1)	Name (2) TPY**	Name (3)	lb/hr	_
A001	Fugitives, MDEA Flash Ta (11/14/1994)(6)	nk VOC H₂S	0.01 0.01	0.03 0.02
A001	Fugitives, 213 Aerial Co 0.08 (3/24/1995)(6)	ooler	VOC	0.02
A001	Fugitives, Propane Aeria Cooler (3/29/1995)(6)	1 VOC	0.01	0.05
A001	Fugitives, Anadarko Gas Processing (5/1/1997)(VOC (6)	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 ₂	2.15	9.40
A001	Fugitives, NGL Pump Replacement (8/1/2002)	V0C (6)	0.02	0.09
EP-10	Flare (dehy still, educt and MSS; 6/17/2002; PBR No. 51610)(6)		,154.51	22.23 24.89 17.45

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

		CO H ₂ S	499.11 12.53	34.83 0.27
FUG	Fugitives, Flare (dehy, still, eductor and MSS; 6/17/2002; PBR No. 51610)	VOC)(6)	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)(0.01	6)	VOC	0.01

Emission	Source	Air Contaminant	<u>Emission</u>	Rates *
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY**
LOT-1	Lube Oil Tank (12/3/2002)(6)	VOC	0.01	0.01
LOT-1	Lube Oil Tank (12/3/200 0.01	2)(6)	VOC	0.01
EGT-1	Antifreeze Tank (12/3/2 0.01	002)(6)	VOC	0.01
MT-1	Methanol Tanks (12/3/20 0.15	02)(6)	VOC	0.04
LAB001	Lab Vent (3/1/1992)(6)	VOC H₂S	0.01 0.02	0.01 0.07
EP-14	Emergency Diesel Generator(6)	NO_{\times} CO VOC SO_{2} PM	8.86 0.72 0.23 0.81 0.89	2.99 0.24 0.08 0.27 0.29

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- (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 particulate matter including particulate matter less than 10 microns in diameter
 - CO carbon monoxide
 - H₂S hydrogen sulfide
 - CS₂ carbon disulfide
 - COS carbonyl sulfide
- (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.
- EP 10 and EPN: FUG (Flare: dehy still, eductor, and MSS) are (6) EPN: authorized under Permit by Rule Number 51610. EPN: EP-11 and EPN: FUG (NGL Contactor) are authorized under Permit by Rule Number 42106. A001 Fugitives from West Panhandle Filter EPN: Separator 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 Standard Exemption X28862. EPN: A001 Fugitives from the Propane Aerial Cooler and Anadarko Gas Processing are authorized under a non Standard Exemption 66. registered EPN: PW-1 PartsWasher are authorized under a non registered Standard Exemption A001 Fugitives from the 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 housr/year) is authorized under a non-registered Permit by Rule § 106.511 claim. EPN: LABOO1 is authorized under a nonregistered Standard Exemption 34. The EPNs are not authorized by this

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

permit. The EPNs are shown for reference only.

*	Emission rates are based on and the facilities are limited by the following maximum operating schedule:
	Hrs/dayDays/weekWeeks/yearor Hrs/year8,760
**	Compliance with annual emission limits is based on a rolling 12-month period.
	Dated August 16, 2007