#### Permit Numbers 101616, PSDTX696M2, N214M2, and GHGPSDTX26M1

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	Source Name (2)	Air Contaminant	Emission Rates	
Point No. (1)		Name (3)	lbs/hour	TPY (4)
	GENERAL CONT	ROL DEVICES		
		со	2.29	10.01
		NO <sub>X</sub>	1.03	4.50
		VOC	2.74	12.02
	Flare Routine	SO <sub>2</sub>	<0.01	<0.01
		H <sub>2</sub> S	<0.01	<0.01
		CH <sub>4</sub> (Train 7 only) (7)	-	1.06
FLR-5		N₂O (Train 7 only) (7)	-	< 0.01
		CO <sub>2</sub> (Train 7 only) (7)	-	972.85
		CO₂e (Train 7 only)	-	999.88
	Controlled Planned MSS Emissions	со	27.47	1.40
		NO <sub>X</sub>	13.40	0.66
		voc	193.78	22.08
		SO <sub>2</sub>	0.09	< 0.01
		H <sub>2</sub> S	< 0.01	< 0.01
		CH₄ (Train 7 only) (7)	-	0.15
		N <sub>2</sub> O (Train 7 only) (7)	-	< 0.01
		CO <sub>2</sub> (Train 7 only) (7)	-	1,291.49
		CO₂e (Train 7 only)	-	1,293.55

Emission Sources - Maximum Allowable Emission Rates

7.85				
		NO <sub>X</sub>	0.55	2.40
		VOC	2.98	13.07
		SO <sub>2</sub>	<0.01	<0.01
		H <sub>2</sub> S	<0.01	<0.01
		CH <sub>4</sub> (Trains 8 & 9 only) (7)	-	2.46
		N <sub>2</sub> O (Trains 8 & 9 only) (7)	-	< 0.01
		CO <sub>2</sub> (Trains 8 & 9 only) (7)	-	1,999.83
		CO <sub>2</sub> e (Trains 8 & 9 only)	-	2,062.16
	Controlled Planned MSS Emissions	СО	22.83	1.32
		NO <sub>X</sub>	10.34	0.52
		VOC	146.78	16.58
		SO <sub>2</sub>	0.28	0.02
		H <sub>2</sub> S	< 0.01	< 0.01
		CH <sub>4</sub> (Trains 8 & 9 only) (7)	-	0.30
		N <sub>2</sub> O (Trains 8 & 9 only) (7)	-	< 0.01
		CO <sub>2</sub> (Trains 8 & 9 only) (7)	-	2,582.97
		CO <sub>2</sub> e (Trains 8 & 9 only)	-	2,587.10

Emission Sources - Maximum Allowable Emission Rates

F-07	Hot Oil Heater	со	5.34	23.41
		NO <sub>X</sub>	0.72	3.16
		voc	0.09	0.38
		SO <sub>2</sub>	0.08	0.37
		РМ	0.58	2.53
		PM <sub>10</sub>	0.58	2.53
		PM <sub>2.5</sub>	0.58	2.53
		NH <sub>3</sub>	0.46	1.99
	Hot Oil Heater MSS	со	42.73	1.54
		NO <sub>X</sub>	2.63	0.09
F-08	Hot Oil Heater	СО	5.34	23.41
		NO <sub>X</sub>	0.72	3.16
		voc	0.09	0.38
		SO <sub>2</sub>	0.08	0.37
		РМ	0.58	2.53
		PM <sub>10</sub>	0.58	2.53
		PM <sub>2.5</sub>	0.58	2.53
		NH₃	0.46	1.99
	Hot Oil Heater MSS	СО	42.73	1.54
		NO <sub>X</sub>	2.63	0.09
AU-4	Amine Still Vent	voc	0.15	0.65
		H <sub>2</sub> S	0.05	0.20
FUG-FRAC5	Train 5 Fugitives (5)	voc	0.41	1.78
FUG-CT-9	Cooling Tower 9	РМ	0.55	2.43
		PM <sub>10</sub>	0.17	0.73

## Emission Sources - Maximum Allowable Emission Rates

		PM <sub>2.5</sub>	0.17	0.73
		VOC	0.81	3.56
TK-2	Ucarsol Storage Tank	voc	0.01	0.01
MSS-TRAIN5	Train 5 Uncontrolled Planned MSS Emissions	voc	11.68	0.24

Emission Sources - Maximum Allowable Emission Rates

F-10	Hot Oil Heater	со	5.96	26.11
		NOx	0.81	3.53
		voc	0.10	0.44
		SO <sub>2</sub>	0.10	0.43
		PM	0.64	2.82
		PM <sub>10</sub>	0.64	2.82
		PM <sub>2.5</sub>	0.64	2.82
		NH <sub>3</sub>	0.51	2.22
	Hot Oil Heater MSS	со	47.66	1.72
		NOx	2.94	0.11
=-11	Hot Oil Heater	со	5.96	26.11
		NOx	0.81	3.53
		VOC	0.10	0.44
		SO <sub>2</sub>	0.10	0.43
		РМ	0.64	2.82
		PM <sub>10</sub>	0.64	2.82
		PM <sub>2.5</sub>	0.64	2.82
		NH <sub>3</sub>	0.51	2.22
	Hot Oil Heater MSS	со	47.66	1.72
		NO <sub>X</sub>	2.94	0.11
AU-5	Amine Still Vent	VOC	0.15	0.65
		H <sub>2</sub> S	0.05	0.20
FUG-FRAC6	Train 6 Fugitives (5)	VOC	1.02	4.45
FUG-CT-10	Cooling Tower 10	PM	0.55	2.43
		PM <sub>10</sub>	0.17	0.73

		PM <sub>2.5</sub>	0.17	0.73
		voc	0.81	3.56
MSS-TRAIN6	Train 6 Uncontrolled Planned MSS Emissions	voc	11.80	0.24
	TRA	AIN 7 <sup>6</sup>		
F-12	Hot Oil Heater – Train 7	СО	5.96	26.10
		NO <sub>X</sub>	0.81	3.53
		voc	0.10	0.44
		SO <sub>2</sub>	0.10	0.43
		PM	0.64	2.82
		PM <sub>10</sub>	0.64	2.82
		PM <sub>2.5</sub>	0.64	2.82
		NH <sub>3</sub>	0.51	2.22
		CH <sub>4</sub> (7)	-	1.56
		N <sub>2</sub> O (7)	-	0.16
		CO <sub>2</sub> (7)	-	82,577.21
		CO₂e	-	82,662.50
F-12	Hot Oil Heater MSS Activities – Train 7	со	47.68	1.72
		NO <sub>X</sub>	2.94	0.11
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Emission Sources - Maximum Allowable Emission Rates

26.10				
		NO <sub>X</sub>	0.81	3.53
		VOC	0.10	0.44
		SO <sub>2</sub>	0.10	0.43
		PM	0.64	2.82
		PM <sub>10</sub>	0.64	2.82
		PM <sub>2.5</sub>	0.64	2.82
		NH <sub>3</sub>	0.51	2.22
		CH <sub>4</sub> (7)	-	1.56
		N <sub>2</sub> O (7)	-	0.16
		CO <sub>2</sub> (7)	-	82,577.21
		CO₂e	-	82,662.50
	Hot Oil Heater MSS Activities – Train 7	со	47.68	1.72
		NO <sub>X</sub>	2.94	0.11
FUG-FRAC7	FRAC7 Fugitives	voc	0.87	3.83
		CH <sub>4</sub> (7)	-	1.51
		CO <sub>2</sub> (7)	-	22.93
		CO₂e	-	574.80
FUG-TERM7	TERM7 Fugitives	VOC	0.12	0.51
		CH <sub>4</sub> (7)	-	0.13
		CO <sub>2</sub> (7)	-	0.20
		CO₂e	-	5.21

Emission Sources - Maximum Allowable Emission Rates

2.67				
		PM <sub>10</sub>	0.19	0.82
		PM <sub>2.5</sub>	< 0.01	< 0.01
		VOC	0.89	3.92
MSS-TRAIN 7	Uncontrolled Planned MSS- Train 7	VOC	11.80	0.24
		CH <sub>4</sub> (7)	-	0.19
		CO₂e	-	4.84
PLOAD7	Pressurized Propane Loading – Train 7	voc	0.40	< 0.01
TO-7	Thermal Oxidizer – Train 7	со	0.17	0.76
		NO <sub>X</sub>	0.10	0.45
		VOC	< 0.01	< 0.01
		SO <sub>2</sub>	0.10	0.21
		H <sub>2</sub> S	< 0.01	< 0.01
		РМ	0.03	0.11
		PM <sub>10</sub>	0.03	0.11
		PM <sub>2.5</sub>	0.03	0.11
		CH <sub>4</sub> (7)	-	0.29
		N <sub>2</sub> O (7)	-	< 0.01
		CO <sub>2</sub> (7)	-	2,885.31
		CO₂e	-	2,893.00

Emission Sources - Maximum Allowable Emission Rates

< 0.01			
	NOx	0.03	< 0.01
	VOC	< 0.01	< 0.01
	SO <sub>2</sub>	< 0.01	< 0.01
	РМ	< 0.01	< 0.01
	PM <sub>10</sub>	< 0.01	< 0.01
	PM <sub>2.5</sub>	< 0.01	< 0.01
	CH <sub>4</sub> (7)	-	< 0.01
	N <sub>2</sub> O (7)	-	< 0.01
	CO <sub>2</sub> (7)	-	0.29
	CO₂e	-	0.30

Emission Sources - Maximum Allowable Emission Rates

F-14	Hot Oil Heater – Train 8	со	5.96	26.10
		NO <sub>X</sub>	0.81	3.53
	voc	0.10	0.44	
	SO <sub>2</sub>	0.10	0.43	
		PM	0.64	2.82
		PM <sub>10</sub>	0.64	2.82
		PM <sub>2.5</sub>	0.64	2.82
		NH <sub>3</sub>	0.51	2.22
		CH <sub>4</sub> (7)	-	1.56
		N <sub>2</sub> O (7)	-	0.16
		CO <sub>2</sub> (7)	-	82,577.21
		CO₂e	-	82,662.50
	Hot Oil Heater MSS Activities – Train 8	со	47.68	1.72
		NOx	2.94	0.11

Emission Sources - Maximum Allowable Emission Rates

26.10				
		NO <sub>X</sub>	0.81	3.53
		VOC	0.10	0.44
		SO <sub>2</sub>	0.10	0.43
		РМ	0.64	2.82
		PM <sub>10</sub>	0.64	2.82
		PM <sub>2.5</sub>	0.64	2.82
		NH <sub>3</sub>	0.51	2.22
		CH <sub>4</sub> (7)	-	1.56
		N <sub>2</sub> O (7)	-	0.16
		CO <sub>2</sub> (7)	-	82,577.21
		CO₂e	-	82,662.50
	Hot Oil Heater MSS Activities – Train 8	СО	47.68	1.72
		NO <sub>x</sub>	2.94	0.11
FUG-FRAC8	FRAC8 Fugitives	VOC	0.87	3.83
		CH <sub>4</sub> (7)	-	1.51
		CO <sub>2</sub> (7)	-	22.93
		CO₂e	-	574.80
FUG-TERM8	TERM8 Fugitives	voc	0.12	0.51
		CH <sub>4</sub> (7)	-	0.13
		CO <sub>2</sub> (7)	-	0.20
		CO₂e	-	5.21

Emission Sources - Maximum Allowable Emission Rates

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2.67				
		PM <sub>10</sub>	0.19	0.82
		PM <sub>2.5</sub>	< 0.01	< 0.01
		VOC	0.89	3.92
MSS-TRAIN8	Uncontrolled Planned MSS Train 8	voc	11.80	0.24
		CH <sub>4</sub> (7)	-	0.19
		CO₂e	-	4.84
PLOAD8	Pressurized Propane Loading - Train 8	VOC	0.40	< 0.01
TO-8	Thermal Oxidizer – Train 8	СО	0.17	0.76
		NO <sub>X</sub>	0.10	0.45
		VOC	< 0.01	< 0.01
		SO <sub>2</sub>	0.10	0.21
		H <sub>2</sub> S	< 0.01	< 0.01
		РМ	0.03	0.11
		PM <sub>10</sub>	0.03	0.11
		PM <sub>2.5</sub>	0.03	0.11
		CH <sub>4</sub> (7)	-	0.29
		N <sub>2</sub> O (7)	-	< 0.01
		CO <sub>2</sub> (7)	-	2,885.31
		CO <sub>2</sub> e	-	2,893.00
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Emission Sources - Maximum Allowable Emission Rates

< 0.01			
	NOx	0.03	< 0.01
	VOC	< 0.01	< 0.01
	SO <sub>2</sub>	< 0.01	< 0.01
	РМ	< 0.01	< 0.01
	PM <sub>10</sub>	< 0.01	< 0.01
	PM <sub>2.5</sub>	< 0.01	< 0.01
	CH <sub>4</sub> (7)	-	< 0.01
	N <sub>2</sub> O (7)	-	< 0.01
	CO <sub>2</sub> (7)	-	0.29
	CO₂e	-	0.30

Emission Sources - Maximum Allowable Emission Rates

F-16	Hot Oil Heater – Train 9	со	5.96	26.10
		NO <sub>x</sub>	0.81	3.53
		VOC	0.10	0.44
		SO <sub>2</sub>	0.10	0.43
		PM	0.64	2.82
		PM <sub>10</sub>	0.64	2.82
		PM <sub>2.5</sub>	0.64	2.82
		NH <sub>3</sub>	0.51	2.22
		CH <sub>4</sub> (7)	-	1.56
		N <sub>2</sub> O (7)	-	0.16
		CO <sub>2</sub> (7)	-	82,577.21
		CO₂e	-	82,662.50
	Hot Oil Heater MSS Activities – Train 9	со	47.68	1.72
		NOx	2.94	0.11

Emission Sources - Maximum Allowable Emission Rates

26.10				
		NO <sub>x</sub>	0.81	3.53
		VOC	0.10	0.44
		SO <sub>2</sub>	0.10	0.43
		РМ	0.64	2.82
		PM <sub>10</sub>	0.64	2.82
		PM <sub>2.5</sub>	0.64	2.82
		NH <sub>3</sub>	0.51	2.22
		CH <sub>4</sub> (7)	-	1.56
		N <sub>2</sub> O (7)	-	0.16
		CO <sub>2</sub> (7)	-	82,577.21
		CO₂e	-	82,662.50
	Hot Oil Heater MSS Activities – Train 9	СО	47.68	1.72
		NO <sub>x</sub>	2.94	0.11
FUG-FRAC9	FRAC9 Fugitives	VOC	0.87	3.83
		CH <sub>4</sub> (7)	-	1.51
		CO <sub>2</sub> (7)	-	22.93
		CO₂e	-	574.80
FUG-TERM9	TERM9 Fugitives	VOC	0.12	0.51
		CH <sub>4</sub> (7)	-	0.13
		CO <sub>2</sub> (7)	-	0.20
		CO₂e	-	5.21

Emission Sources - Maximum Allowable Emission Rates

		PM <sub>10</sub>	0.19	0.82
		PM <sub>2.5</sub>	< 0.01	< 0.01
		VOC	0.89	3.92
RAIN9 Un	ncontrolled Planned MSS Train 9	voc	11.80	0.24
		CH <sub>4</sub> (7)	-	0.19
		CO₂e	-	4.84
9 Pre	ressurized Propane Loading - Train 9	voc	0.40	< 0.01
The	Thermal Oxidizer – Train 9	со	0.17	0.76
		NOx	0.10	0.45
		voc	< 0.01	< 0.01
		SO <sub>2</sub>	0.10	0.21
		H <sub>2</sub> S	< 0.01	< 0.01
		РМ	0.03	0.11
		PM <sub>10</sub>	0.03	0.11
		PM <sub>2.5</sub>	0.03	0.11
		CH <sub>4</sub> (7)	-	0.29
		N <sub>2</sub> O (7)	-	< 0.01
		CO <sub>2</sub> (7)	-	2,885.31
		CO <sub>2</sub> e	-	2,893.00
		SO <sub>2</sub> H <sub>2</sub> S PM PM <sub>10</sub> PM <sub>2.5</sub> CH <sub>4</sub> (7) N <sub>2</sub> O (7) CO <sub>2</sub> (7)	0.10 < 0.01 0.03 0.03 0.03	0.21 < 0.01 0.11 0.11 0.11 0.29 < 0.01 2,885.31

Emission Sources - Maximum Allowable Emission Rates

< 0.01			
	NO <sub>x</sub>	0.03	< 0.01
	VOC	< 0.01	< 0.01
	SO <sub>2</sub>	< 0.01	< 0.01
	РМ	< 0.01	< 0.01
	PM <sub>10</sub>	< 0.01	< 0.01
	PM <sub>2.5</sub>	< 0.01	< 0.01
	CH <sub>4</sub> (7)	-	< 0.01
	N₂O (7)	-	< 0.01
	CO <sub>2</sub> (7)	-	0.29
	CO₂e	-	0.30

Emission Sources - Maximum Allowable Emission Rates

F-18	Hot Oil Heater	СО	5.96	26.10
		NO <sub>X</sub>	0.81	3.53
		voc	0.10	0.44
		SO <sub>2</sub>	0.10	0.43
		PM	0.64	2.82
		PM <sub>10</sub>	0.64	2.82
		PM <sub>2.5</sub>	0.64	2.82
		NH <sub>3</sub>	0.51	2.22
F-18-MSS	Hot Oil Heater MSS	со	47.68	0.43
		NO <sub>x</sub>	2.94	0.03
F-19	Hot Oil Heater – Train 9	СО	5.96	26.10
		NO <sub>x</sub>	0.81	3.53
		VOC	0.10	0.44
		SO <sub>2</sub>	0.10	0.43
		PM	0.64	2.82
		PM <sub>10</sub>	0.64	2.82
		PM <sub>2.5</sub>	0.64	2.82
		NH <sub>3</sub>	0.51	2.22
F-19-MSS	Hot Oil Heater MSS	СО	47.68	0.43
		NO <sub>X</sub>	2.94	0.03
FUG-FRAC10	Fugitives (5)	VOC	1.20	5.28
FUG-TERM10	Fugitives (5)	voc	0.12	0.51

FUG-CT-14	Cooling Tower 14	PM	0.61	2.67
		PM <sub>10</sub>	0.19	0.82
		PM <sub>2.5</sub>	<0.01	<0.01
		VOC	0.89	3.92
MSS-T10	Planned MSS Emissions to Atmosphere	VOC	5.91	0.12
PLOAD10	Pressurized Propane Loading	VOC	0.40	<0.01
TO-10	Train 10 Thermal Oxidizer	со	0.17	0.76
		NO <sub>X</sub>	0.10	0.45
		VOC	<0.01	<0.01
		SO <sub>2</sub>	0.10	0.21
		H <sub>2</sub> S	<0.01	<0.01
		PM	0.03	0.11
		PM <sub>10</sub>	0.03	0.11
		PM <sub>2.5</sub>	0.03	0.11
TO10-MSS	Train 10 TO Startup Emissions	со	0.04	<0.01
		NO <sub>X</sub>	0.03	<0.01
		VOC	<0.01	<0.01
		SO <sub>2</sub>	<0.01	<0.01
		PM	<0.01	<0.01
		PM <sub>10</sub>	<0.01	<0.01
		PM <sub>2.5</sub>	<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<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

 $PM_{10}$  - total particulate matter equal to or less than 10 microns in diameter, including  $PM_{2.5}$ , as

represented

PM<sub>2.5</sub> - particulate matter equal to or less than 2.5 microns in diameter

CO - carbon monoxide

#### Emission Sources - Maximum Allowable Emission Rates

$NH_3$	- ammonia
$H_2S$	- hydrogen sulfide
CH <sub>4</sub>	- methane
$N_2O$	- nitrous oxides
CO <sub>2</sub>	- carbon dioxide
CO₂e	- carbon dioxide equivalents based on the following Global Warming Potentials (1/2015)
	CO <sub>2</sub> (1), N <sub>2</sub> O (298), CH <sub>4</sub> (25)
MSS	- maintenance, startup, and shutdown

- (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.
- (6) The construction and operation of Trains 7, 8, and 9 are represented as phased construction. The permit holder is required to comply with applicable conditions and emission limitations for both normal operations and MSS operations upon start of operation of each fractionation train
- (7) Emission rate is given for informational purposes only and does not constitute enforceable limit.

Date:	May 5, 2023
Date.	Way 3, 2020