Permit Numbers 105710 and PSDTX1306M1

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 (4)	
Limssion Fount No. (1)	Source Name (2)	All Contaminant Name (5)	lbs/hour	TPY (5)
TRB1	Propane Refrigeration Turbines	NO _x	39.60	
TRB2		со	24.10	
TRB7	Emission rates are per turbine	voc	0.90	
TRB8		SO ₂	0.44	
TRB13		H ₂ S	<0.01	
TRB14		РМ	0.98	
		PM ₁₀	0.98	
		PM _{2.5}	0.98	
TRB3	Ethylene	NO _x	39.60	See Annual CAP limits
TRB4	Refrigeration Turbines	СО	24.10	below.
TRB9	Emission rates are per	VOC	0.90	
TRB10	turbine	SO ₂	0.44	
TRB15		H ₂ S	<0.01	
TRB16		РМ	0.98	
		PM ₁₀	0.98	
		PM _{2.5}	0.98	
TRB5	Methane Defrigeration	NO _x	39.60	
TRB6	Refrigeration Turbines	СО	24.10	
TRB11	Emission rates are per	VOC	0.90	
TRB12	turbine	SO ₂	0.44	
TRB17		H ₂ S	<0.01	
TRB18		РМ	0.98	
		PM ₁₀	0.98	
		PM _{2.5}	0.98	

s	Annual CAP	NO _x	See hourly limits per	3121.92
	Six Propane,	со	turbine above.	1900.26
	Six Ethylene, and Six Methane	voc		71.28
	Refrigeration Turbines	SO ₂		34.74
		H ₂ S		0.18
		РМ		77.58
		PM ₁₀		77.58
		PM _{2.5}		77.58
TO-1	Thermal Oxidizer	NO _x	4.69	17.31
		СО	13.84	46.86
		VOC	0.24	0.56
		SO ₂	1.44	3.36
		H ₂ S	<0.01	0.02
		РМ	<0.01 0.58 0.58	2.15
		PM ₁₀		2.15
		PM _{2.5}	0.58	2.15
TO-2	Thermal Oxidizer	NO _x	4.69	17.31
		СО	13.84	46.86
		VOC	0.24	0.56
		SO ₂	1.44	3.36
		H ₂ S	<0.01	0.02
		РМ	0.58	2.15
		PM ₁₀	0.58	2.15
		PM _{2.5}	0.58	2.15

Emission Sources - Maximum Allowable Emission Rates

TO-3	Thermal Oxidizer	NO _x	4.69	17.31
		СО	13.84	46.86
		VOC	0.24	0.56
		SO ₂	1.44	3.36
		H ₂ S	<0.01	0.02
		PM	0.58	2.15
		PM ₁₀	0.58	2.15
		PM _{2.5}	0.58	2.15
WTDYFLR1	Wet/Dry Gas Flare 1 (Normal Operations)	NOx	71.02	See Flare Cap limits below.
	(Normal Operations)	СО	282.86	- IIIIIII3 below.
		VOC	61.25	
		SO ₂	4.42	
		H ₂ S	0.05	
WTDYFLR2	Wet/Dry Gas Flare 2 (Normal Operations)	NO _x	71.02	1
	(Normal Operations)	СО	282.86 61.25	
		VOC		
		SO ₂	4.42	
		H ₂ S	0.05	
WTDYFLR1 and WTDYFLR2	Flare Cap (Normal Operations)	NO _x	71.02	63.83
WIDIFLRZ	(Normal Operations)	СО	282.86	374.54
		VOC	61.25	75.60
		SO ₂	4.42	3.51
		H ₂ S	0.05	0.04
WTDYFLR1	Wet/Dry Gas Flare 1	NO _x	816.68	See Annual Flare Cap
	(MSS)	СО	3,252.52	(MSS) below.
		VOC	2,895.54	
		SO ₂	2.20	
		H ₂ S	0.02	
WTDYFLR2	Wet/Dry Gas Flare 2 (MSS)	NO _x	816.68	

Emission Sources - Maximum Allowable Emission Rates

I	Ī			, ,
		со	3,252.52	
		voc	2,895.54	
		SO ₂	2.20	
		H ₂ S	0.02	
WTDYFLR1 and WTDYFLR2	Annual Flare Cap	NOx	See hourly MSS limits per flare above.	228.09
WIDTELRZ	(MSS)	со	per nare above.	908.39
		voc		116.62
		SO ₂		1.02
		H ₂ S		0.01
MRNFLR	Marine Flare	NO _x	389.73	58.18
		со	1,552.05	414.77
		VOC	394.37	14.59
		SO ₂	<0.01	<0.01
		H ₂ S	<0.01	<0.01
GEN1	Standby Generator 1	NO _x	28.70	1.30
		СО	5.28	0.24
		VOC	0.32	0.01
		SO ₂	0.03	<0.01
		РМ	0.16	<0.01
		PM ₁₀	0.16	<0.01
		PM _{2.5}	0.16	<0.01
GEN2	Standby Generator 2	NO _x	28.70	1.30
		СО	5.28	0.24
		VOC	0.32	0.01
		SO ₂	0.03	<0.01
		PM	0.16	<0.01
		PM ₁₀	0.16	<0.01
		PM _{2.5}	0.16	<0.01
GEN3	Standby Generator 3	NO _x	28.70	1.30

Emission Sources - Maximum Allowable Emission Rates

		СО	5.28	0.24
		VOC	0.32	0.01
		SO ₂	0.03	<0.01
		PM	0.16	<0.01
		PM ₁₀	0.16	<0.01
		PM _{2.5}	0.16	<0.01
GEN4	Standby Generator 4	NO _x	28.70	1.30
		СО	5.28	0.24
		VOC	0.32	0.01
		SO ₂	0.03	<0.01
		PM	0.16	<0.01
		PM ₁₀	0.16	<0.01
		PM _{2.5}	0.16	<0.01
FWPUMP1	Diesel Firewater Pump	NO _x	2.90	0.13
		СО	0.69	0.03
		VOC	0.08	<0.01
		SO ₂	<0.01	<0.01
		РМ	0.10	<0.01
		PM ₁₀		<0.01
		PM _{2.5}	0.10	<0.01
FWPUMP2	Diesel Firewater Pump 2	NO _x	2.90	0.13
	2	СО	0.69	0.03
		VOC	0.08	<0.01
		SO ₂	<0.01	<0.01
		РМ	0.10	<0.01
		PM ₁₀	0.10	<0.01
		PM _{2.5}	0.10	<0.01
IFRTK1	Condensate Tank	VOC	0.60	1.27
TRKLD	Truck Loading	voc	1.33	1.91

			Y .	
TRKVCU	Condensate Truck Loading VCU	NO _x	5,11	22.40
	Loading VCO	СО	2.96	12.99
		VOC	1.02	1.47
		SO ₂	0.02	0.09
		PM	0.28	1.21
		PM ₁₀	0.28	1.21
		PM _{2.5}	0.28	1.21
WWLD	Wastewater Truck Loading	VOC	3.95	0.03
WWTK1	Wastewater Tank	VOC	0.18	<0.01
TK1902	Spent Scavenger Tank	VOC	0.01	<0.01
SCAVLD	Spent Scavenger Loading	voc	<0.01	<0.01
DSLTK1	Diesel Tank	VOC	0.08	<0.01
DSLTK2	Diesel Tank	VOC	0.08	<0.01
DSLTK3	Diesel Tank	VOC	0.08	<0.01
DSLTK4	Diesel Tank	VOC	0.08	<0.01
FWPTK1	Diesel Tank	VOC	0.05	<0.01
FWPTK2	Diesel Tank	VOC	0.05	<0.01
GDFTK1	Diesel Tank	VOC	0.08	<0.01
GDFTK2	Gasoline Tank	VOC	14.52	0.31
AMNTK1	Amine Storage Tank	VOC	<0.01	<0.01
AMNSRG1	Amine Surge Tank - MSS	voc	<0.01	<0.01
AMNSRG2	Amine Surge Tank - MSS	voc	<0.01	<0.01
AMNSRG3	Amine Surge Tank - MSS	VOC	<0.01	<0.01
FUG	Fugitive Emissions (6)	VOC	18.12	79.40
		H ₂ S	<0.01	<0.01
TRKMSS	Truck Loading (MSS)	VOC	43.05	0.49

⁽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

 $\begin{array}{ccc} \text{CO} & & \text{- carbon monoxide} \\ \text{H}_2 \text{S} & & \text{- hydrogen sulfide} \end{array}$

(4) Planned startup and shutdown (SS) lbs/hour emissions for all pollutants are authorized even if not specifically identified as SS.

(5) Compliance with annual emission limits (tons per year) is based on a 12 month rolling period.

(6) Emission rate is an estimate and is enforceable through compliance with the applicable special condition(s) and permit application representations.

Date:	DRAFT

Permit Number GHGPSDTX123M1

This table lists the maximum allowable emission rates of greenhouse gas (GHG) emissions, as defined in Title 30 Texas Administrative Code § 101.1, for all sources of GHG air contaminants on the applicant's property that are authorized 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 authorized by this permit.

Air Contaminants Data

Emission Daint No. (4)	Course Name (2)	Air Contaminant	Emission Rates
Emission Point No. (1)	Source Name (2)	Name (3)	TPY (4)
TRB1-TRB18	Annual cap	CO ₂ (5)	3,963,366
	Six Propane,	CH ₄ (5)	75
	Six Ethylene, and	N ₂ O (5)	8
	Six Methane Refrigeration Turbines	CO ₂ e	3,967,486
TO-1	Thermal Oxidizer	CO ₂ (5)	360,494
		CH ₄ (5)	11
		N ₂ O (5)	<1
		CO ₂ e	360,789
TO-2	Thermal Oxidizer	CO ₂ (5)	360,494
_		CH ₄ (5)	11
		N ₂ O (5)	<1
		CO₂e	360,789
TO-3	Thermal Oxidizer	CO ₂ (5)	360,494
		CH ₄ (5)	11
		N ₂ O (5)	<1
		CO₂e	360,789
WTDYFLR1, WTDYFLR2	Annual Flare Cap (Continuous	CO ₂ (5)(6)	346,637
	and MSS)	CH ₄ (5)(6)	1,740
		N ₂ O (5)(6)	<1
		CO ₂ e (6)	390,305
MRNFLR	Marine Flare	CO ₂ (5)	87,889
		CH ₄ (5)	672.6
		N ₂ O (5)	<1
		CO ₂ e	104,759

GEN1	Standby Generator 1	CO ₂ (5)	129
		CH ₄ (5)	<1
		N ₂ O (5)	<1
		CO ₂ e	129
GEN2	Standby Generator 2	CO ₂ (5)	129
		CH ₄ (5)	<1
		N ₂ O (5)	<1
		CO ₂ e	129
GEN3	Standby Generator 3	CO ₂ (5)	129
		CH ₄ (5)	<1
		N ₂ O (5)	<1
		CO ₂ e	129
GEN4	Standby Generator 4	CO ₂ (5)	129
		CH ₄ (5)	<1
		N ₂ O (5)	<1
		CO₂e	129
FWPUMP1	Diesel Firewater Pump 1	CO ₂ (5)	24
		CH ₄ (5)	<1
		N ₂ O (5)	<1
		CO₂e	24
FWPUMP2	Diesel Firewater Pump 2	CO ₂ (5)	24
		CH ₄ (5)	<1
		N ₂ O (5)	<1
		CO ₂ e	24
TRKVCU	Condensate Truck Loading VCU	CO ₂ (5)	21,859
	(6)	CH ₄ (5)	1
		N ₂ O (5)	<1
			21,947
		CO₂e	

FUG	Fugitive Emissions (5)(6)	CO ₂ (5)	12
		CH ₄ (5)	143
		CO ₂ e	3590
MSS-BOG	BOG Compressor MSS Venting	CH ₄ (5)	1
		CO ₂ e	19

- (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) CO₂ carbon dioxide

 N_2O - nitrous oxide

 CH_4 - methane

HFCs - hydrofluorocarbons
PFCs - perfluorocarbons
SF₆ - sulfur hexafluoride

CO₂e - carbon dioxide equivalents based on the following Global Warming Potentials (1/2015):

CO₂ (1), N₂O (298), CH₄(25), SF₆ (22,800), HFC (various), PFC (various)

- (4) Compliance with annual emission limits (tons per year) is based on a 12-month rolling period. These rates include emissions from maintenance, startup, and shutdown.
- (5) Emission rate is given for informational purposes only and does not constitute enforceable limit.
- (6) Emissions updated to be consistent with the records required by 30 TAC §116.164(b)

Date:	DRAFT