Permit Number GHGPSDTX170

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 Point No. (1)	Source Name (2)	Air Contaminant	Emission Rates	
		Name (3)	TPY (4)	
	Pyrolysis Furnace A	CO ₂ (5)	_	
O_FAF01		CH ₄ (5)	_	
		N ₂ O (5)	_	
		CO ₂ e	_	
O_FBF01	Pyrolysis Furnace B	CO ₂ (5)	_	
		CH ₄ (5)	_	
		N ₂ O (5)	_	
		CO₂e	_	
O_FCF01	Pyrolysis Furnace C	CO ₂ (5)	_	
		CH ₄ (5)	_	
		N ₂ O (5)	_	
		CO₂e	_	
O_FDF01	Pyrolysis Furnace D	CO ₂ (5)	_	
		CH ₄ (5)	_	
		N ₂ O (5)	_	
		CO₂e	_	
O_FEF01	Pyrolysis Furnace E	CO ₂ (5)	_	
		CH ₄ (5)	_	
		N ₂ O (5)	_	
		CO₂e	_	
O-FFF01	Pyrolysis Furnace F	CO ₂ (5)	_	
		CH ₄ (5)	_	
		N ₂ O (5)	_	
		CO₂e	_	

O_FGF01	Pyrolysis Furnace G	CO ₂ (5)	_
		CH ₄ (5)	_
		N ₂ O (5)	_
		CO ₂ e	_
O_FHF01	Pyrolysis Furnace H	CO ₂ (5)	_
		CH ₄ (5)	_
		N ₂ O (5)	_
		CO ₂ e	_
O_F_CAP	Pyrolysis Furnaces Cap	CO ₂ (5)	1555774.36
		CH ₄ (5)	129.80
		N ₂ O (5)	25.96
		CO ₂ e	1566755.63
UFFLARE01	Multi-point Ground Flare	CO ₂ (5)	_
		CH ₄ (5)	_
		N ₂ O (5)	_
		CO ₂ e	_
UFFLARE02	Shared Elevated Flare	CO ₂ (5)	_
		CH ₄ (5)	_
		N ₂ O (5)	_
		CO ₂ e	_
CAPUFFLR	Shared Elevated and Ground	CO ₂ (5)	150087.73
	Flare Cap	CH ₄ (5)	93.95
		N ₂ O (5)	1.50
		CO ₂ e	152883.64
CAPUFFLR	Shared Elevated and Ground	CO ₂ (5)	191633.46
	Flare Cap (Shakedown Period)	CH ₄ (5)	116.32
		N ₂ O (5)	1.92
		CO ₂ e	195085.70
O_FUG	Olefins Unit Fugitives	CH ₄	10.49
		CO _{2e}	262.21
O-REGEN	Olefins Regeneration Vent	CO ₂ (5)	17.18
		CO ₂ e	17.18

GFFLARE01	MEG Elevated Flare	CO ₂ (5)	_
		CH ₄ (5)	_
		N ₂ O (5)	_
		CO ₂ e	_
GBX02	MEG Thermal Oxidizer	CO ₂ (5)	_
		CH ₄ (5)	_
		N ₂ O (5)	_
		CO ₂ e	_
G_FUG	Glycol Unit Fugitives	CO ₂ (5)	0.76
		CH ₄ (5)	2.11
		CO _{2e}	53.62
GLYCAP	MEG Elevated Flare and MEG	CO ₂ (5)	428930.74
	Thermai Oxidizer Cap	CH ₄ (5)	195.17
		N ₂ O (5)	0.94
		CO ₂ e	434091.18
GLYCAP	MEG Elevated Flare and MEG	CO ₂ (5)	435416.28
	(Shakedown Period)	$\begin{array}{c} \text{CH}_4 \left(5\right) \\ \text{N}_2 \text{O} \left(5\right) \\ \text{CO}_2 \text{e} \\ \\ \text{CO}_2 \text{e} \\ \\ \text{CO}_2 \left(5\right) \\ \\ \text{CH}_4 \left(5\right) \\ \\ \text{N}_2 \text{O} \left(5\right) \\ \\ \text{CO}_2 \text{e} \\ \\$	199.23
	(Crianodown Fortod)	N ₂ O (5)	1.01
		CO ₂ e	440697.54
USSG01A	Utilities Boiler A	CO ₂ (5)	_
		CH ₄ (5)	_
		N ₂ O (5)	_
		CO ₂ e	_
USSG01B	Utilities Boiler B	CO ₂ (5)	_
		CH ₄ (5)	_
		N ₂ O (5)	_
		CO ₂ e	_
USSG01C	Utilities Boiler C	CO ₂ (5)	
		CH ₄ (5)	_
		N ₂ O (5)	
		CO₂e	_

USSG01CAP	Utilities Boiler Cap	CO ₂ (5)	676557.06
		CH ₄ (5)	45.63
		N ₂ O (5)	9.13
		CO₂e	680417.66
UFF01A	Shared Thermal Oxidizer A	CO ₂ (5)	_
		CH ₄ (5)	_
		N ₂ O (5)	_
		CO ₂ e	_
UFF01B	Shared Thermal Oxidizer B	CO ₂ (5)	_
		CH ₄ (5)	_
		N ₂ O (5)	_
		CO₂e	_
UFF01	Shared Thermal Oxidizer Cap	CO ₂ (5)	63536.78
		CH ₄ (5)	191.84
		N ₂ O (5)	0.64
		CO₂e	68522.08
U_FUG	Utilities Fugitives	CH ₄	6.27
		CO _{2e}	156.69
EMGGEN01	Olefins Emergency Generator	CO ₂ (5)	_
	No. 1	CH ₄ (5)	_
		N ₂ O (5)	_
		CO ₂ e	_
EMGGEN02	Utilities Emergency Generator	CO ₂ (5)	_
	No. 2	CH ₄ (5)	_
		N ₂ O (5)	_
		CO ₂ e	_
ADMINGEN	Admin Emergency Generator No. 1	CO ₂ (5)	_
		CH ₄ (5)	_
		N ₂ O (5)	_
		CO ₂ e	_
FWP1	Firewater Pump No.1	CO ₂ (5)	_
		CH ₄ (5)	_
		N ₂ O (5)	_

•			
		CO₂e	_
FWP2	Firewater Pump No. 2	CO ₂ (5)	_
		CH ₄ (5)	_
		N ₂ O (5)	_
		CO₂e	_
GLYGEN01	Glycol Emergency Generator No. 1	CO ₂ (5)	_
		CH ₄ (5)	_
		N ₂ O (5)	_
		CO₂e	_
ENGINECAP	Emergency Generator and	CO ₂ (5)	1132.44
	Firewater Pump Cap	CH ₄ (5)	0.05
		N ₂ O (5)	0.01
		CO₂e	1136.33
MSS_CAP	Maintenance, Startup and Shutdown Cap	CO ₂ (5)	78.59
		CH ₄ (5)	0.24
		N ₂ O (5)	< 0.01
		CO₂e	84.75
MSS_TANK	Tank Maintenance, Startup and	CO ₂ (5)	314.34
	Shutdown Cap	CH ₄ (5)	0.95
		N ₂ O (5)	< 0.01
		CO₂e	339.01
PE_FUG	Total Emissions from EPNs E_FUG, C_FUG	CH ₄ (5)	0.09
		CO₂e	2.21
PE_REGEN	PE Regeneration Vent	CO ₂ (5)	38.40
		CO₂e	38.40
ZWSRCO1A/B	Equalization Tanks Catalytic Oxidizer	CO ₂ (5)	573.68
		CH ₄ (5)	1.73
		N ₂ O (5)	< 0.01
		CO ₂ e	618.69

(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

N₂O - nitrous oxide

CH₄ - methane

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

Project Number: 315195

- CO_2 (1), N_2O (298), CH_4 (25), SF_6 (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.