Permit Number 140763 and PSDTX1500M1

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 (4)
	UT3 No. 1 Gas Turbine	NO _x	9.69	50.74
		NO _x (MSS)	177.18	30.74
		СО	11.79	78.16
		CO (MSS)	434.17	
		VOC	3.37	15.82
3U-7A		VOC (MSS)	37.22	
		SO ₂	0.93	3.67
		PM	4.03	17.38
		PM ₁₀	4.03	17.38
		PM _{2.5}	4.03	17.38
		NH ₃	17.93	73.08
		NH₃ (MSS)	50.00	
		H ₂ SO ₄	0.43	1.68
		(NH ₄) ₂ SO ₄	0.58	2.27
3U-7ALOVT	UT3 No. 1 Gas Turbine Lube Oil Vent (5)	VOC	0.01	0.04
		РМ	0.01	0.04
		PM ₁₀	0.01	0.04
		PM _{2.5}	0.01	0.04
3U-7ANGVT	UT3 No. 1 Gas Turbine Natural Gas Vent (5)	VOC	0.66	0.02
3U-CL2FUG	UT3 Chlorine Fugitives (5)	Cl ₂	0.01	0.02

3U-7B	UT3 No. 2 Gas Turbine	NO _x	9.69	50.74
		NO _{x (} MSS)	177.18	
		со	11.79	78.16
		CO (MSS)	434.17	
		voc	3.37	15.82
		VOC (MSS)	37.22	
		SO ₂	0.93	3.67
		PM	4.03	17.38
		PM ₁₀	4.03	17.38
		PM _{2.5}	4.03	17.38
		NH ₃	17.93	73.08
		NH₃ (MSS)	50.00	
		H ₂ SO ₄	0.43	1.68
		(NH ₄) ₂ SO ₄	0.58	2.27
3U-7BLOVT	UT3 No. 2 Gas Turbine Lube Oil Vent (5)	VOC	0.01	0.04
		РМ	0.01	0.04
		PM ₁₀	0.01	0.04
		PM _{2.5}	0.01	0.04
3U-7BNGVT	UT3 No. 2 Gas Turbine Natural Gas Vent (5)	voc	0.66	0.02
3U-STLOVT		voc	0.01	0.04
		PM	0.01	0.04
		PM ₁₀	0.01	0.04
		PM _{2.5}	0.01	0.04
3U-NGFUG	UT3 Natural Gas Fugitives (5)	voc	0.12	0.51
3U-NH3FUG	UT3 Aqueous Ammonia Fugitives (5)	NH₃	0.02	0.08

	<u> </u>			
3U-MSS	UT3 ILE Maintenance Fugitives (5)	NO _x	0.01	0.01
		со	0.01	0.01
		voc	1.00	0.01
		PM	27.83	0.14
		PM ₁₀	27.83	0.14
		PM _{2.5}	27.83	0.14
		NH ₃	47.96	0.05
3U-W10	UT3 Cooling Tower	PM	0.86	2.40
		PM ₁₀	0.20	0.87
		PM _{2.5}	0.01	0.01
		HOCI	0.01	0.01
3U-TTW12	UT3 Sulfuric Acid Tank	H ₂ SO ₄	0.01	0.01
1018, 1067, OL3-FLRA, OL3-FLRB, OL3-FLRC, EGF-1, EGF-2, EGF-3, EGF-4	UT3 Contribution Hourly Cap (6)	voc	15.02	-
		NO _x (Elevated Flare option)	2.00	-
		CO (Elevated Flare option)	7.98	-
		NO _x (EGF option)	2.00	-
		CO (EGF option)	4.00	-
FLARECAP	Elevated and Enclosed Ground Flares Annual Cap (7)	NO _x	-	0.01
		СО	-	0.01
		voc	-	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

HOCl - hypochlorous acid H₂SO₄ - sulfuric acid

H₂SO₄ - sulfuric acid 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

ropresented

represented

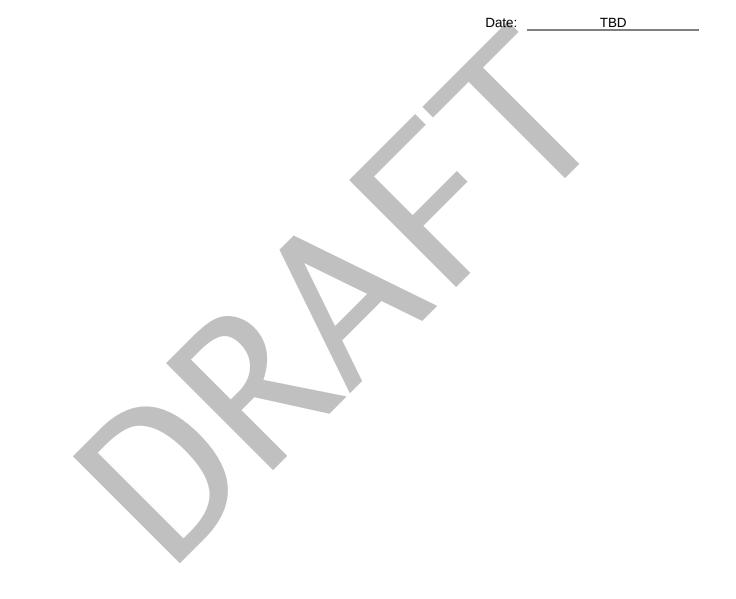
PM_{2.5} - particulate matter equal to or less than 2.5 microns in diameter

CO - carbon monoxide

 NH_3 - ammonia $(NH_4)_2SO_4$ - ammonium sulfate Cl_2 - chlorine gas

(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) Maximum hourly emission rate for waste gas flaring may occur from any combination of EPNs.
- (7) Emissions in the cap are authorized to be emitted from any combination of the following flare EPNs: 1018, 1067, OL3-FLRA/B/C, EGF-1, EGF-2, EGF-3, and EGF-4.



Permit Number GHGPSDTX46M1

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 Reint No. (4)	All Contaminants Date	Air Contaminant	Emission Rates	
Emission Point No. (1)	Source Name (2)	Name (3)	TPY (4)	
	Combined-cycle CT No. 1/HRSG	CO ₂ (5)	548,583.00	
3U-7A		CH ₄ (5)	10.00	
30-7A		N ₂ O (5)	1.00	
		CO₂e	549,150.00	
	Turbine No. 1 Startup Natural Gas Purges	CO ₂ (5)	<1.00	
3U-7ANGVT		CH ₄ (5)	<1.00	
		CO ₂ e	13.00	
		CO ₂ (5)	548,583.00	
3U-7B	Combined evelo CT No. 2/HPSC	CH ₄ (5)	10.00	
30-76	Combined-cycle CT No. 2/HRSG	N ₂ O (5)	1.00	
		CO₂e	549,150.00	
	Turbine No. 2 Startup Natural Gas Purges	CO ₂ (5)	<1.00	
3U-7BNGVT		CH ₄ (5)	<1.00	
		CO₂e	13.00	
	Natural Gas Fugitives	CO ₂ (5)	3.00	
3U-NGFUG		CH ₄ (5)	<1.00	
		CO ₂ e	80.00	
	Natural gas purges during small equipment and fugitive component repair, replacement, and	CO ₂ (5)	1.00	
3U-MSS		CH ₄ (5)	1.00	
	maintenance	CO₂e	7.00	
	Elevated and Enclosed Ground	CO ₂ (5)	1.00	
CHCELADECAD		CH ₄ (5)	1.00	
GHGFLARECAP	Flares GHG Annual Cap (6)	N ₂ O (5)	1.00	
		CO ₂ e	1.00	

⁽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⁾ CO_2 - carbon dioxide N_2O - nitrous oxide

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Emission Sources - Maximum Allowable Emission Rates

CH₄ - 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 in the cap are authorized to be emitted from any combination of the following flare EPNs: 1018, 1067, OL3-FLRA/B/C, EGF-1, EGF-2, EGF-3, and EGF-4.

