

Emission Sources - Maximum Allowable Emission Rates

Permit Numbers 160299 and PSDTX1576

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)
E-55-201	Feed Treating Heater	NO _x	2.35	5.41
		NO _x (MSS)	10.08	(6)
		CO	4.63	7.49
		CO (MSS)	23.17	(6)
		VOC	0.36	1.16
		SO ₂	2.00	2.36
		PM	0.5	1.60
		PM ₁₀	0.5	1.60
		PM _{2.5}	0.5	1.60
E-55-202	Isomerization Heater	NO _x	1.91	4.41
		NO _x (MSS)	8.19	(6)
		CO	3.74	6.08
		CO (MSS)	18.71	(6)
		VOC	0.29	0.94
		SO ₂	1.73	2.06
		PM	0.41	1.31
		PM ₁₀	0.41	1.31
		PM _{2.5}	0.41	1.31
C-DGDPM	Pre-Treatment Solid Material Handling	PM	0.07	0.16
		PM ₁₀	0.03	0.06
		PM _{2.5}	<0.01	0.01
C-DGDVOC	Pre-Treatment Process Tanks and Vessels	VOC	0.55	2.87
C-DGDUNLD	Bleached Earth/Filter Aid Unloading	PM	0.29	1.22
		PM ₁₀	0.29	1.22
		PM _{2.5}	0.13	0.55
E-BE-DGD	Bleached Earth Storage Silos	PM	0.06	0.56
		PM ₁₀	0.06	0.56
		PM _{2.5}	0.03	0.26

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E-FA-DGD	Filter Aid Storage Silos	PM	0.06	0.05
		PM ₁₀	0.06	0.05
		PM _{2.5}	0.03	0.02
E-CT-350	Cooling Tower	VOC	1.16	5.06
		PM	0.34	1.21
		PM ₁₀	0.34	1.19
		PM _{2.5}	0.08	0.27
C-DGDFUG	Piping Fugitives	VOC	5.95	26.08
		NH ₃	<0.01	0.02
		H ₂ S	<0.01	0.02
E-30-FLARE	Flare Cap	NO _x	52.43	6.86
		CO	255.83	29.75
		VOC	149.31	24.11
		SO ₂	412.64	11.98
		H ₂ S	4.27	0.10
C-DGDWWTU	Wastewater Pretreatment (DGD)	VOC	5.10	1.17
T-304	Flex Fat Tank	VOC	1.05	0.52
T-301	Blend Tank 1	VOC	1.05	-
T-302	Blend Tank 2	VOC	1.05	-
T-303	Blend Tank 3	VOC	1.05	-
	Blend Tank Annual Cap	VOC	-	0.75
T-54-001	Hydration Tank	VOC	13.55	2.41
T-325	Slop Oil Tank	VOC	7.29	3.29
T-56-012	Citric Acid Tank	VOC	0.18	<0.01
T-311	Treated Fat Tank No. 1	VOC	9.13	-
T-312	Treated Fat Tank No. 2	VOC	9.13	-
T-313	Treated Fat Tank No. 3	VOC	9.13	-
	Treated Fat Tank Annual Cap	VOC	-	6.56
T-321	Naphtha Rundown Tank	VOC	3.78	5.62
T-322	Naphtha Shipment Tank	VOC	5.65	7.47
T-103	Renewable Diesel Rundown Tank (T-103)	VOC	12.62	20.23
T-2301	Renewable Diesel Shipment Tank 1	VOC	13.19	-
T-2302	Renewable Diesel Shipment Tank 2	VOC	13.19	-
	Renewable Diesel Shipment Tank Annual Cap	VOC	-	11.51
C-CMSSDGD	Controlled MSS	NO _x	3.00	0.50
		CO	4.00	0.66

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		VOC	10.0	0.32
		SO ₂	<0.01	<0.01
		PM	0.15	0.03
		PM ₁₀	0.15	0.03
		PM _{2.5}	0.15	0.03
C-UMSSDGD	Uncontrolled MSS	VOC	43.12	0.65
E-01-EMGEN	500 kW Emergency Generator	NO _x	8.02	0.21
		CO	4.38	0.11
		VOC	8.02	0.21
		SO ₂	0.01	<0.01
		PM	0.25	0.01
		PM ₁₀	0.25	0.01
		PM _{2.5}	0.25	0.01
E-02-EMGEN	300 kW Emergency Generator	NO _x	3.16	0.08
		CO	2.76	0.07
		VOC	3.16	0.08
		SO ₂	0.01	<0.01
		PM	0.16	<0.01
		PM ₁₀	0.16	<0.01
		PM _{2.5}	0.16	<0.01
GEN1-TK	Emergency Generator Tank 1	VOC	0.11	<0.01
GEN2-TK	Emergency Generator Tank 2	VOC	0.07	<0.01
C-MSSCAT	Reactor Catalyst Changeout	PM	0.12	<0.01
		PM ₁₀	0.08	<0.01
		PM _{2.5}	0.02	<0.01
C-LPGLOAD	Propane/Butanes LPG Loading Hose Disconnects	VOC	3.96	0.72

- (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
- CO - carbon monoxide
- NH₃ - ammonia
- H₂S - hydrogen sulfide
- (4) Compliance with annual emission limits (tons per year) is based on a 12-month rolling period.

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- (5) Emission rate is an estimate and is enforceable through compliance with the applicable special condition(s) and permit application representations.
- (6) Annual MSS emissions are included as part of annual emissions authorized for normal facility operation.

Date: October 22, 2021

Emission Sources - Maximum Allowable Emission Rates

Permit Number GHGPSDTX200

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 Name (3)	Emission Rates	
			lbs/hour	TPY (4)
E-55-201	Feed Treating Heater	CO ₂ (5)	-	25,106
		CH ₄ (5)	-	0.47
		N ₂ O (5)	-	0.05
		CO _{2e}	-	25,132
E-55-202	Isomerization Heater	CO ₂ (5)	-	20,494
		CH ₄ (5)	-	0.39
		N ₂ O (5)	-	0.04
		CO _{2e}	-	20,516
C-DGDFUG	Piping Fugitives	CH ₄ (5)	-	2.30
		CO _{2e}	-	57.00
E-30-FLARE	Flare Cap	CO ₂ (5)	-	8,002
		CH ₄ (5)	-	0.19
		N ₂ O (5)	-	0.02
		CO _{2e}	-	8,012
C-CMSSDGD	Controlled MSS	CO ₂ (5)	-	42.00
		CH ₄ (5)	-	<0.01
		N ₂ O (5)	-	<0.01
		CO _{2e}	-	42.00

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E-01-EMGEN	500 kW Emergency Generator	CO ₂ (5)	-	23.00
		CH ₄ (5)	-	<0.01
		N ₂ O (5)	-	<0.01
		CO _{2e}	-	23.00
E-02-EMGEN	300 kW Emergency Generator	CO ₂ (5)	-	14.00
		CH ₄ (5)	-	<0.01
		N ₂ O (5)	-	<0.01
		CO _{2e}	-	14.05

- (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
CO_{2e} - carbon dioxide equivalents based on the following Global Warming Potentials (GWP) found in Table A-1 of Subpart A 40 CFR Part 98 (78 FR 71904) for each pollutant: CO₂ (1), N₂O (298), CH₄(25)
- (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.

Date: October 22, 2021