

Emission Sources - Maximum Allowable Emission Rates

Permit Number 52041

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)
26UTLFLR	Utilities Flare (8)	CO	113.96	-
		SO ₂	0.24	-
		NO _x	22.36	-
		VOC (7)	265.19	-
		HRVOC	97.78	-
26UTLFLRTMP	Utilities Temporary Flare (6) (8)	CO	113.96	-
		SO ₂	0.24	-
		NO _x	22.36	-
		VOC (7)	265.19	-
		HRVOC	97.78	-
26UTLFLR 26UTLFLRTMP	Utilities Flare Annual CAP (8) (9)	CO	-	14.84
		SO ₂	-	0.17
		NO _x	-	2.91
		VOC (7)	-	21.55
		HRVOC	-	9.37
26UTLFLR 26UTLFLRTMP	Utilities Flare Annual CAP (8) (10)	CO	-	32.52
		SO ₂	-	0.17
		NO _x	-	6.38
		VOC (7)	-	48.57
		HRVOC	-	11.90
26UTLFLRMSS	Utilities Flare MSS	CO	168.94	0.17
		NO _x	33.15	0.03
		VOC (7)	179.07	0.18
		HRVOC	133.99	0.13

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26UTLFUG	Utilities Fugitives	VOC (7)	0.20	0.88
		HRVOC	0.20	0.88
30LRFLR	Loading Rack Flare	CO	28.08	1.76
		SO ₂	0.01	0.04
		NO _x	3.28	0.21
		VOC	91.90	0.99
47ANAL1ST	South Analyzer Bldg / North Stack	VOC (7)	6.93	1.82
		HRVOC	6.93	1.82
47ANAL2ST	South Analyzer Bldg / South Stack	VOC (7)	0.65	0.55
		HRVOC	0.65	0.55
47HELD	Heavy Ends Loading (9)	VOC	0.26	0.02
47HELD	Heavy Ends Loading (10)	VOC	0.92	0.24
47LELD	Light Ends Loading	VOC	< 0.01	< 0.01
47MN528ST	Inhibitor Mix Tanks	VOC	12.02	2.64
47MT6FUG	VA Cooling Tower (5)	VOC (7)	2.10	7.36
		HRVOC	2.10	7.36
		PM	0.44	1.93
		PM ₁₀	0.26	1.16
		PM _{2.5}	< 0.01	< 0.01
47MSSFUG	MSS Emissions	VOC (7)	36.80	0.04
		HRVOC	32.45	0.03
47V240ST	Inhibitor Surge Tank	VOC	11.85	0.95
47V243ST	Inhibitor Surge Tank	VOC	11.85	0.96
47VAFUG	VA Process Fugitives (5) (9)	VOC (7)	1.68	7.36
		HRVOC	0.53	2.33
		CO	0.01	0.03
47VAFUG	VA Process Fugitives (5) (10)	VOC (7)	4.63	20.39
		HRVOC	2.22	9.71
		CO	0.01	0.03
47VASTM	VA Steam Vent	VOC	4.71	2.10
47TOTE	Unloading	VOC	< 0.01	< 0.01

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- (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
HRVOC	- highly reactive volatile organic compounds as defined in 30 TAC § 115.10
NO _x	- total oxides of nitrogen
SO ₂	- sulfur dioxide
PM	- total particulate matter, suspended in the atmosphere, including PM ₁₀ and PM _{2.5} , as represented
PM ₁₀	- 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
- (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) Use of the temporary flare is limited to no more than 720 hours per year. The temporary flare shall not be used while Utilities Flare (EPN 26UTLFLR) is in operation, with the exception of a brief period (not to exceed 2 hours) while vents are being switched from one flare to the other. Total annual emissions from the vinyl acetate unit controlled by the temporary flare and the Utilities Flare must not exceed the annual emission rate for the Utilities Flare CAP.
- (7) VOC emission rates include the ethylene HRVOC emissions.
- (8) Flare emissions (EPNs 26UTLFLR and 26UTLFLRTMP) authorized as Vinyl Acetate Unit Contribution only. Emission Points are also on permits 260 and 55046.
- (9) Authorized emission rates following completion of the Vinyl Acetate Unit Expansion Project submitted as an Amendment application, PI-1 dated April 13, 2016. The new emission rate(s) are a reduction in TPY, actual emissions prior to completion of the Vinyl Acetate Expansion Project should not be included in compliance with these limits.
- (10) Authorized emission rates prior to completion of the Vinyl Acetate Unit Expansion Project submitted as an Amendment application, PI-1 dated April 13, 2016.

Date: February 14, 2017