

Attachment A.3

Emission Sources - Maximum Allowable Emission Rates

Permit Numbers 2193 and N232

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)
100-25	Tank No. 100-25	VOC	1.46	4.36
100-26	Tank No. 100-26	VOC	1.46	4.36
100-27	Tank No. 100-27	VOC	1.46	4.36
100-28	Tank No. 100-28	VOC	1.46	4.36
150-116	Tank No. 150-116	VOC	1.33	4.17
150-117	Tank No. 150-117	VOC	1.33	4.17
150-118	Tank No. 150-118	VOC	1.33	4.17
150-119	Tank No. 150-119	VOC	1.33	4.17
150-120	Tank No. 150-120	VOC	1.33	4.17
150-121	Tank No. 150-121	VOC	1.33	4.17
TANKCAP	Tank Emission Cap	VOC	-	14.15
TNK-VCU-1C	Tank Roof Landing Control Device (7)	VOC	4.12	-
		NOx	2.65	-
		CO	3.53	-
		SO2	0.03	-
		PM	1.70	-
		PM ₁₀	1.70	-
		PM _{2.5}	1.70	-

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TNK-VCU-1D	Tank Roof Landing Control Device (7)	VOC	4.12	-
		NO _x	2.65	-
		CO	3.53	-
		SO ₂	0.03	-
		PM	1.70	-
		PM ₁₀	1.70	-
		PM _{2.5}	1.70	-
TNK-VCU-1C TNK-VCU-1D	Tank Roof Landing Control Device (7)	VOC	-	1.55
		NO _x	-	1.70
		CO	-	2.27
		SO ₂	-	0.02
		PM	-	1.09
		PM ₁₀	-	1.09
		PM _{2.5}	-	1.09
TKATMDEGAS	Uncontrolled Tank Landing Emissions	VOC	27.24	2.10
FUG	Process Fugitive Components (5)	VOC	0.49	2.15
SHDK-1 SHPDK-2 SHPDK-3 SHPDK-4 BGDK-1 BGDK-2 BGDK-3	Marine Loading Fugitives (8)	VOC	-	4.40
SD-4VCU VCU-BD3 VCU-1B VCU-1C VCU-2A VCU-2B VCU-2C	Marine Loading VCU Emissions (8)	VOC	-	3.63
		NO _x	-	2.43
		CO	-	3.25
		SO ₂	-	0.02
		PM	-	0.30
		PM ₁₀	-	0.30
		PM _{2.5}	-	0.30

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MSSCONT	Controlled MSS Emissions	VOC	8.86	0.05
		NO _x	2.48	0.17
		CO	3.31	0.23
		SO ₂	0.02	0.01
		PM	1.59	0.11
		PM ₁₀	1.59	0.11
		PM _{2.5}	1.59	0.11
MSSATM	Uncontrolled MSS Emissions	VOC	36.50	0.62
N168-BEN	N168 Benzene Emission Caps (6)	Benzene	3.62	1.17

- (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
- (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) Benzene emission caps apply to all facilities identified in Special Condition 1.B of this permit.
- (7) The **annual emission** limit applies to total emissions due to controlled tank floating roof landing activities for storage tanks identified in Special Condition 1.B. The short-term emission rate limits **on this Attachment A.3 (EPNs: TNK-VCU-1C & 1D)** apply to controlled tank floating roof landing activities for storage tanks identified in Special Condition 1.A and 1B.
- (8) The annual emission limit applies to total emissions due to liquid transfers to marine vessels from storage tanks identified in Special Condition 1.B. The short-term emission rate limits **are listed in Attachment A.1 and** they apply to marine and land based vessel liquid transfer from storage tanks identified in Special Condition No. 1.A, 1.B, and 1.C.

Date: February 26, 2016