Attachment A.2

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
			TPY (4)
BOILER-4	Steam Boiler No. 4 (14.7 MMBtu/hr fired duty)	СО	0.97
		NO _x	6.44
		PM ₁₀	0.06
		SO ₂	0.04
		VOC	0.26
VCU-1A	Truck Rack No. 1, 6, 10, 11, 12, 13, West Railcar Loading Rack Controlled Loading VCU Emissions Cap (10, 11)	СО	1.89
		NO _x	0.95
		SO ₂	0.01
		VOC	0.17
		PM	0.07
		PM ₁₀	0.07
		PM _{2.5}	0.07
VCU-1B & VCU-1C	Ship Dock No. 2 & Barge Dock No.2 Controlled Loading VCU (12, 13)	СО	6.34
		NOx	3.17
		SO2	0.02
		VOC	2.42
		PM	0.24
		PM10	0.24
		PM2.5	0.24

Emission Sources - Maximum Allowable Emission Rates

VCU-2A, VCU-2B & VCU-2C	Annual Ship Dock No. 3 Controlled Loading VCU Emissions Cap (12 & 13)	СО	8.23
		NOx	6.18
		SO2	0.02
		VOC	1.25
		РМ	0.31
		PM ₁₀	0.31
		PM _{2.5}	0.31
VCU-BD3 & SD-4- VCU	Barge Dock No. 3 & Ship Dock No. 4 Loading VCU Emissions Cap (12&13)	СО	10.17
		NOx	5.09
		SO2	0.03
		VOC	2.45
		PM	0.38
		PM ₁₀	0.38
		PM _{2.5}	0.38
ALLTRK	Annual Truck Uncontrolled & Fugitive Loading Losses (10)	VOC	0.26
ALLRCR	Annual Railcar Uncontrolled & Fugitive Loading Losses (11)	VOC	0.12
SHPDK-2, SHPDK-4, BGDK-2 & BGDK-3	Annual Ship and Barge Uncontrolled & Fugitive Loading Losses (12 & 13)	VOC	7.66
SHPDK-3	Annual Ship and Barge Uncollected & Fugitive Loading Losses (12 & 13)	VOC	3.59
SHPDK-1 & BGDK-1	Ship and Barge Emission Losses Uncontrolled (12 & 13)	VOC	5.62
TNK-VCU-2	Tank 125-1 and Tank 187-1 Controlled Roof Landings	СО	16.27
		NOx	8.15
		SO2	0.04
		VOC	2.72
BD3-LDFUG	Barge Dock No. 3 Loading Losses VP < 0.50 psia Uncontrolled	VOC	2.32
Sump-1	Wastewater Sumps	VOC	2.85

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Emission Sources - Maximum Allowable Emission Rates

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TK-DEGAS	Annual Controlled Tank Degassing (9)	NO _x	1.01
		СО	2.03
	Annual Controlled Degassing Tank Maintenance Sub-Cap (7)	NO _x	0.04
		СО	0.07
Storage Tanks	Total Annual (TPY) Cap (5)	VOC	410.00
	Annual Tank Maintenance Sub-Cap (8)	VOC	18.19
BD3-PIPEFUG	Barge Dock No. 3 Process Fugitives (4)	VOC	0.22
BIOFUG	Biodiesel Process Fugitives (4)	VOC	0.17
FUG	Process Fugitives (4)	VOC	28.49
FUG-125-1	Storage Tank No. 125-1 Process Fugitives (4)	VOC	0.41
TKFUG-ESTPLT	East Plant Fugitives	VOC	3.44
TNK-VCU-1A and TNK-VCU-1B	East Plant Tank Roof Landing TNK-VCU No 1A and TNK-VCU No. 1B Annual Emissions Cap (14)	VOC	10.48
		NO _x	22.56
		СО	45.03
SD-4-PIPEFUG	Ship Dock No. 4 Piping Fugitives	VOC	0.60
CAMU	Corrective Action Management Unit	VOC	0.11
MSS Caps	MSS Activities (6)	VOC	0.57
		Benzene	0.45
		NO _x	0.03
		СО	0.10

- (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 carbon monoxide

NO_x - total oxides of nitrogen

SO₂ - sulfur dioxide

PM₁₀ - particulate matter equal to or less than 10 microns in diameter

VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code ' 101.1

(4) Emission rate is an estimate and compliance is demonstrated by meeting the requirements of the applicable special conditions and permit application representations.

Emission Sources - Maximum Allowable Emission Rates

- (5) Annual emissions cap for tanks covers routine emissions as well emissions from tank roof landings, controlled tank degassing, and uncontrolled tank degassing attributable to routine product changes and planned maintenance, startup, and shutdown (MSS) activities.
- (6) Benzene is included in VOC.
- (7) Annual Controlled Tank Degassing Maintenance Sub-Cap covers emissions from controlled tank degassing attributable planned MSS activities as represented in Special Condition No. 23. Cap is a subcap of Annual Controlled Tank Degassing annual cap.
- (8) Annual Tank Maintenance Sub-Caps cover emissions from tank roof landings, controlled tank degassing, and uncontrolled tank degassing attributable to planned MSS activities as represented in Special Condition No. 23. Cap is a subcap of Total Annual Storage Tank (tons per year) Cap.
- (9) Annual Controlled Tank Degassing cap covers emissions from controlled tank degassing attributable to routine product changes and planned MSS activities.
- (10) Limit applies to total emissions due to liquid transfers to tank trucks from storage tanks identified in Special Condition 1.A.
- (11) Limit applies to total emissions due to liquid transfers to railcars from storage tanks identified in Special Condition 1.A.
- (12) Limit applies to total emissions due to liquid transfers to ships from storage tanks identified in Special Condition 1.A.
- (13) Limit applies to total emissions due to liquid transfers to barges from storage tanks identified in Special Condition 1.A.
- (14) Limit applies to total emissions due to controlled tank floating roof landing activities for storage tanks identified in Special Condition 1.A.

Dated: March 24, 2016

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