Emission Sources - Maximum Allowable Emission Rates

Permit Number 19720

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)
A16FU4	A-3A Dock Fugitives (5)	HCI	<0.01	0.01
A22FU1	A-22 Dock, PSA, and Flare Fugitives (5)	VOC (6)	0.17	0.19
		Chloroform	0.21	0.27
		HCI	<0.01	<0.01
		Acetone	0.07	0.33
		Methylene chloride	0.04	0.03
		Perchloroethylene	0.02	0.02
A22CB1CB2	Pressure Swing Adsorption System for Dock A-22 (A22-1 and A22-2)	VOC (6)	1.58	0.16
		Chloroform	0.43	0.13
		1,1,2 Trichloroethane	0.01	0.01
		Methylene chloride	0.61	0.13
		Perchloroethylene	0.01	0.01
A22FLAR1	A-22 Dock Flare	voc	0.24	0.61
		Acetone	11.50	1.98
		NO _x	3.25	7.13
		SO ₂	0.31	0.79
		СО	27.91	61.16
A22ML22	A-22 Ship Loading Losses	Total VOC	0.47	0.01
		Perchloroethylene (7)	23.05	1.87
A22BL22	A-22 Barge Loading Losses	Total VOC	0.87	0.01
		Perchloroethylene (7)	57.63	2.88
A22ST4044	Tank T-4044	VOC	9.64	-
A30ST4005	Tank T-4005	VOC	9.64	-
	Terminal Operations (8)	VOC	-	2.33

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Compartmented Tank Truck Loading	Perchloroethylene	5.57	0.25
	voc	0.03	0.05
Process Fugitives (5)	voc	0.09	0.39
Filter Changes and Open Lines Startup, shutdown, and Maintenance Operation Only	Acetone	0.04	0.03
	Perchloroethylene	0.29	0.04
	voc	0.77	0.08
Process Fugitives (5)	Acetone	0.01	0.01
	Perchloroethylene	0.01	0.01
	voc	0.02	0.04
Process Fugitives (5)	voc	0.02	0.07
Fugitive Emissions (5)	Perchloroethylene	0.01	0.03
Perchlor Pipeline (5)	Perchloroethylene	0.04	0.19
Гапк Farm Area: PSV Re	emovals, Tank OSI, Vacuum Truck	s, Filter Changes (Plar	ned MSS)
Pressure Swing Adsorption System PSA A22-1 and A22-2	voc	0.03	0.01
Uncontrolled MSS Emissions	VOC	2.32	0.27
Uncontrolled Tank V4003 MSS Emissions	voc	0.37	0.26
	Process Fugitives (5) Filter Changes and Open Lines Startup, shutdown, and Maintenance Operation Only Process Fugitives (5) Process Fugitives (5) Fugitive Emissions (5) Perchlor Pipeline (5) Fank Farm Area: PSV Reserved Startup, shutdown, and Maintenance Operation Only Process Fugitives (5) Fugitive Emissions (5) Perchlor Pipeline (5) Tank Farm Area: PSV Reserved Startup, shutdown, and Maintenance Operation System PSA A22-1 and A22-2 Uncontrolled MSS Emissions Uncontrolled Tank	Truck Loading VOC Process Fugitives (5) Filter Changes and Open Lines Startup, shutdown, and Maintenance Operation Only Process Fugitives (5) Perchloroethylene VOC Process Fugitives (5) Perchloroethylene Perchloroethylene Perchloroethylene Perchloroethylene Perchloroethylene VOC Process Fugitives (5) Perchloroethylene VOC VOC VOC VOC VOC VOC VOC VO	Truck Loading VOC 0.03 Process Fugitives (5) VOC 0.09 Filter Changes and Open Lines Startup, shutdown, and Maintenance Operation Only Acetone 0.04 Perchloroethylene 0.29 VOC 0.77 Process Fugitives (5) Acetone 0.01 Perchloroethylene 0.01 VOC 0.02 Process Fugitives (5) VOC 0.02 Fugitive Emissions (5) Perchloroethylene 0.01 Perchlor Pipeline (5) Perchloroethylene 0.04 Fank Farm Area: PSV Removals, Tank OSI, Vacuum Trucks, Filter Changes (Plant Psa A22-1 and A22-2 VOC 0.03 Uncontrolled MSS Emissions VOC 2.32 Uncontrolled Tank VOC 0.27

(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

 $\begin{array}{lll} SO_2 & - \mbox{ sulfur dioxide} \\ CO & - \mbox{ carbon monoxide} \\ HCI & - \mbox{ hydrochloric acid} \\ C_2Cl_4 & - \mbox{ perchloroethylene} \end{array}$

(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) These VOC emission rates do not include chloroform or 1,1,2 trichloroethane emissions.
- (7) The permit holder shall not load perchloroethylene at A22ML22 (uncontrolled ship loading) and A22BL22 (uncontrolled barge loading) simultaneously.
- (8) Terminal Operations represents the combined annual emissions from all storage tanks listed on the MAERT, but does not include process fugitive and loading loss emissions.

Date:	January 30, 2018
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