Emission Sources - Maximum Allowable Emission Rates

Permit Number 96510

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)
1	Additive Preparation Vessel baghouse	PM_{10}	0.09	0.04
		$PM_{2.5}$	0.06	0.03
2	Flare (Routine)	VOC	9.89	-
		Methanol	2.94	-
		Vinyl Acetate	1.74	-
		Acetaldehyde	1.20	-
		1-propanol	0.01	-
		Ethylene	4.00	-
		Methylacetate	25.00	-
		NO_x	3.84	-
		SO_2	0.33	-
		CO	19.55	-
2	Flare (MSS)	VOC	5.09	-
		Methanol	3.20	-
		Vinyl Acetate	1.84	-
		Acetaldehyde	0.02	-
		Ethylene	0.03	-
		Methylacetate	3.46	-
		NO_x	0.08	-
		SO_2	0.01	-
		CO	0.44	-
2	Flare (Routine and Maintenance Annual Emissions Cap)	VOC	-	7.86
		Methanol	-	2.04
		Vinyl Acetate	-	1.08
		Acetaldehyde	-	1.20
		1-propanol	-	0.90
		Ethylene	-	2.64
		Methylacetate	-	7.00
		NO_x	-	4.46
		SO_2	-	0.73

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		CO	-	22.74
3	C-706 Scrubber (Routine)	VOC	0.68	0.01
		Methanol	0.01	0.01
		Acetic Acid	0.68	0.01
3a	C-706 Scrubber (MSS)	VOC	0.01	0.01
		Methanol	0.01	0.01
		Acetic Acid	0.01	0.01
4	C-901 Scrubber	VOC	0.08	0.02
		Methanol	0.06	0.01
		Acetic Acid	0.02	0.02
		Methylacetate	33.02	0.93
5	C-061 Scrubber	VOC	0.01	0.01
		Methanol	0.01	0.01
6	C-511-1 Scrubber	VOC	0.31	1.17
		Methanol	0.31	1.17
		Methylacetate	5.31	19.53
		$PM_{10}/PM_{2.5}$	0.08	0.30
7	C-311-1 Scrubber (Routine)	VOC	0.10	0.35
		Methanol	0.10	0.35
		Methylacetate	3.62	13.03
		$PM_{10}/PM_{2.5}$	0.05	0.15
7a	C-311-1 Scrubber (MSS)	VOC	1.35	0.02
		Methanol	1.35	0.02
		Vinyl Acetate	60.36	0.88
9	Tank Car Loading/Unloading	VOC	0.61	0.23
		Methanol	0.22	0.01
		Vinyl Acetate	0.29	0.21
		Acetic Acid	0.02	0.01
		Acetaldehyde	0.08	0.01
		1-Propanol	0.01	0.01
		Methylacetate	0.03	0.01
10 (ATTACH A)	MTC Building Washing, Catalyst charging/handling	VOC	0.11	0.01
		$PM_{10}/PM_{2.5}$	0.01	0.01
11a	Cooling Tower	VOC	0.01	0.02
		$PM_{10}/PM_{2.5}$	0.11	0.40
11b	Cooling Tower	VOC	0.01	0.02

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		$PM_{10}/PM_{2.5}$	0.11	0.40
12	Firewater Pump	VOC	0.74	0.02
		SO_2	0.01	0.01
		NO_x	9.30	0.24
		CO	2.00	0.05
		PM_{10}	0.66	0.02
		$PM_{2.5}$	0.66	0.02
13	Emergency Generator	VOC	0.60	0.10
		SO_2	0.02	0.01
		NO_x	13.42	2.27
		CO	2.54	0.43
		PM_{10}	0.21	0.04
		$PM_{2.5}$	0.20	0.03
FUGTVS	Fugitives: All sections (5)	VOC	2.05	8.99
		Methanol	1.20	5.27
		Vinyl Acetate	0.27	1.20
		Acetic Acid	0.13	0.60
		Ethylene	0.45	1.96
		Methylacetate	0.22	0.96
MTCE	Maintenance: All Sections	VOC	149.86	6.40
		Methanol	126.20	5.46
		Vinyl Acetate	14.87	0.48
		Poly-Vinyl Alcohol	0.32	0.06
		Acetic Acid	8.42	0.40
		Acetaldehyde	0.03	0.01
		1-Propanol	0.02	0.01
		Methylacetate	69.87	3.50

(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
SO_2 - sulfur dioxide
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.

Date: January 24, 2020