Emission Sources – Maximum Allowable Emission Rates

Permit Number 811B

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	Recycle Solvent Tank	VOC	0.98	1.09
2A	Makeup Solvent Tank	VOC	0.31	0.32
2B	Solvent Holdup Tank	VOC	0.38	0.79
3	Fuel Oil Tank	VOC	0.70	0.03
4	Comonomer Storage Tank	VOC	6.49	1.67
7	Product Blender	VOC	33.60	22.80
11	Scrap Pellet Bin	VOC	40.30	36.60
12	Flare	VOC	162.78	46.35
		CO	180.92	117.29
		NO_X	35.12	22.77
		SO_2	1.00	1.07
		H_2S	<0.01	0.01
	Flare MSS (6)	VOC	161.00	8.68
		CO	165.00	6.05
		NO_X	22.9	1.20
		SO_2	0.42	<0.01
14	Fugitives (5)	VOC	20.53	89.91
16	Adsorber Bag Filter	PM	0.43	1.88
		PM_{10}	0.06	0.28
		$PM_{2.5}$	0.02	0.09

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

17	Blending Bag Filter	PM	1.80	7.88
		PM_{10}	0.27	1.18
		$PM_{2.5}$	0.09	0.39
19	Comonomer Storage Tank	VOC	6.49	1.67
165	Additive Bag Filter	PM	0.06	0.26
		PM_{10}	< 0.01	0.04
		$PM_{2.5}$	< 0.01	0.01
166	Bulk Alumina Bag Filter	PM	0.21	0.94
		PM_{10}	0.03	0.14
		$PM_{2.5}$	0.01	0.05
167	Hopper Car Unloading Bag Filter	PM	0.12	<0.01
		PM_{10}	0.02	<0.01
		$PM_{2.5}$	0.01	<0.01
200	Fluid Bed Dryer No. 1	VOC	1.24	1.43
		PM	0.10	0.06
		PM_{10}	0.02	<0.01
		$PM_{2.5}$	<0.01	<0.01
205	Fluid Bed Dryer No. 2	VOC	1.24	1.43
		PM	0.1	0.06
		PM_{10}	0.02	<0.01
		$PM_{2.5}$	<0.01	<0.01
210	Centrifugal Dryer No. 1	VOC	1.88	0.91
		PM	0.29	0.33
		PM_{10}	0.04	0.05
		$PM_{2.5}$	0.01	0.02
220	Centrifugal Dryer No. 2	VOC	1.88	0.91
		PM	0.29	0.33
		PM_{10}	0.04	0.05
		$PM_{2.5}$	0.01	0.02

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230	Centrifugal Dryer No. 3	VOC	2.81	2.04
		PM	0.43	0.50
		PM_{10}	0.06	0.08
		$PM_{2.5}$	0.02	0.03
300A	Stormwater Tank	VOC	0.05	0.22
300B	Stormwater Tank	VOC	0.05	0.22
305	Raw Materials Unloading Lines	VOC	0.01	<0.01
310	CMC Wax Lights and Loading Lines	VOC	0.02	<0.01
330	Additive Hopper	VOC	<0.01	<0.01
350	Extruder Seal Vent & Conveying Water Sump	VOC	0.19	0.81
360	Seal Oil Totes	VOC	0.16	<0.01
370	Field GCs	VOC	<0.01	0.02
390	Chem Station Totes	VOC	<0.01	0.03
DRUMUNLOAD	Drum Unloading	VOC	1.03	0.02
TOTEUNLOAD	Tote Unloading	VOC	0.89	0.28
410A (7)	Acetyl Acetone Storage Tank	VOC	5.28	0.05
410B (7)	Acetyl Acetone Storage Tank	VOC		0.05
RCTSMLG	Reactor Sampling	VOC	11.70	0.29
MSS	MSS Activities	VOC	125.40	4.27
		PM	<0.01	<0.01
		PM_{10}	<0.01	<0.01
		$PM_{2.5}$	<0.01	<0.01

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

ADDBULK1	North Additive Bulk Bag Discharge and Screw Conveyor Purge	PM	< 0.01	< 0.01
		PM_{10}	< 0.01	< 0.01
		$PM_{2.5}$	< 0.01	< 0.01
ADDBULK2	South Additive Bulk Bag Discharge and Screw Conveyor Purge	PM	< 0.01	< 0.01
		PM_{10}	< 0.01	< 0.01
		$PM_{2.5}$	< 0.01	< 0.01
AMC1A	North Aero Mechanical Conveyor No. 1a	VOC	0.16	0.02
AMC1B	North Aero Mechanical Conveyor No. 1b	VOC	0.16	0.02
AMC2	South Aero Mechanical Conveyor No. 2	VOC	0.39	0.04
MIXTK3	North Bulk Mix Tank No. 3	VOC	0.12	0.01
MIXTK2	South Bulk Mix Tank No. 2	VOC	0.06	<0.01

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

(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
H_2S - hydrogen sulfide
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) Flare emissions during MSS.
(7) Tanks will not be filled simultaneously.

Date: 7/30/2021