Permit Number 6093

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. (4)		Air Contaminant Name (3)	Emission Rates (9)	
Emission Point No. (1)			lbs/hour	TPY (4)
7	V-1 Mixed Batch Bin	PM	<0.01	<0.01
		PM ₁₀	<0.01	<0.01
58	V-1 Mixed Batch Transfer	PM	<0.01	<0.01
		PM ₁₀	<0.01	<0.01
3	V-1 Furnace Dry Electrostatic	PM	2.50	10.95
	Precipitator Stack	PM ₁₀	2.50	10.95
		PM _{2.5}	2.13	9.31
		NOx	15.50	67.89
		SO ₂	1.49	6.51
		VOC	1.60	6.99
		СО	0.82	3.60
		Chlorides	0.21	0.92
6	V-1 Furnace Dry Electrostatic Precipitator Bypass Stack (7)	PM	31.92	2.30
		PM ₁₀	31.92	2.30
		PM _{2.5}	27.13	1.96
		NO _x	15.50	1.20
		SO ₂	1.49	0.11
		VOC	1.59	0.12
		со	0.82	0.06
		CO (8)	2.04	0.07
		Chlorides	7.76	0.56

Emission Boint No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates (9)	
Emission Point No. (1)			lbs/hour	TPY (4)
0	V-1 Mixing Chamber Stack	PM	40.00	166.44
		PM ₁₀	40.00	166.44
		NOx	22.60	98.99
		SO ₂	7.25	31.76
		VOC	20.00	96.36
		СО	24.00	105.12
		Ammonia	40.00	175.20
13	V-1 Cooling Section Exhaust Stack	PM	3.00	13.14
		PM ₁₀	3.00	13.14
		NOx	0.13	0.57
		SO2	0.15	0.66
		voc	4.00	8.76
		со	1.59	6.96
		Ammonia	2.00	8.76
1	V-1 Facing Oven/Flexographic Printing Stack	PM	0.09	0.40
		PM ₁₀	0.09	0.40
		PM _{2.5}	0.03	0.12
		NOx	0.21	0.90
		SO ₂	0.01	0.04
		VOC	0.06	0.26
		СО	0.17	0.75
/-1 FUG, 631	V-1 Line Fugitives (5)	PM	1.04	4.51
		PM ₁₀	1.04	4.51

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates (9)	
			lbs/hour	TPY (4)
		NOx	1.21	5.30
		SO ₂	0.03	0.09
		VOC	5.76	25.27
		со	1.02	4.45
		Chlorides	0.12	0.51
		Ammonia	0.42	1.82
26	V-2 Mixed Batch Bin	РМ	0.22	0.30
		PM ₁₀	0.22	0.30
444	V-2 Cullet Bin	PM	<0.01	<0.01
		PM ₁₀	<0.01	<0.01
50	V-2 Batch Charge Hopper	РМ	<0.01	<0.01
		PM ₁₀	<0.01	<0.01
19, 20	V-2 Furnace Stacks (East and West Combined)	РМ	3.13	13.69
		PM ₁₀	3.13	13.69
		PM _{2.5}	1.72	7.53
		PM (10)	5.00	0.08
		PM ₁₀ (10)	5.00	0.08
		PM _{2.5} (10)	2.75	0.04
		NOx	25.00	109.50
		SO ₂	0.79	3.47
		VOC	1.81	8.00
		со	0.60	2.63
		Chlorides	0.12	0.54
22		PM	35.00	153.30

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates (9)	
			lbs/hour	TPY (4)
	V-2 Mixing Chamber Stack	PM ₁₀	35.00	153.30
		NOx	6.38	27.94
		SO ₂	1.00	4.38
		VOC	10.50	45.99
		СО	19.00	83.22
		Ammonia	30.00	131.40
55, 23	V-2 Cooling Section Exhaust Stack (Smoke	РМ	4.25	18.62
	Stripper and HEAF)	PM ₁₀	4.25	18.62
		NO _x	0.22	0.96
		SO ₂	0.22	0.96
		VOC	2.40	10.51
		СО	2.93	12.83
		Ammonia	5.50	24.09
52	V-2 Flexographic Printing Stack	VOC	<0.01	<0.01
V-2 FUG	V-2 Line Fugitives (5)	РМ	2.27	9.97
		PM ₁₀	2.27	9.97
		PM _{2.5}	2.17	9.50
		NOx	0.05	<0.01
		SO ₂	0.07	0.31
		VOC	0.41	1.81
		СО	0.04	<0.01
		Chlorides	0.23	1.03
		Ammonia	0.64	2.82

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates (9)	
			lbs/hour	TPY (4)
36	V-3 Mixed Batch Bin	РМ	0.22	0.30
		PM ₁₀	0.22	0.30
37	V-3 Mixed Batch Bin	PM	0.22	0.30
		PM ₁₀	0.22	0.30
445	V-3 Cullet Bin	PM	<0.01	<0.01
		PM ₁₀	<0.01	<0.01
51	V-3 Batch Charge Hopper	PM	<0.01	<0.01
	Поррем	PM ₁₀	<0.01	<0.01
38, 39	V-3 Furnace Stacks (East and West Combined)	РМ	3.13	13.69
		PM ₁₀	3.13	13.69
		PM _{2.5}	1.72	7.53
		PM (10)	5.00	0.08
		PM ₁₀ (10)	5.00	0.08
		PM _{2.5} (10)	2.75	0.04
		NOx	25.00	109.50
		SO ₂	0.99	4.33
		VOC	1.81	8.00
		со	0.60	2.63
		Chlorides	0.18	0.81
40	V-3 Mixing Chamber Stack	PM	35.00	153.30
		PM ₁₀	35.00	153.30
		NOx	6.20	27.16
		SO ₂	0.98	4.29
		VOC	10.50	45.99

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates (9)	
			lbs/hour	TPY (4)
		со	20.70	90.67
		Ammonia	26.00	113.88
56, 41	V-3 Cooling Section Exhaust Stack (Smoke	РМ	4.25	18.62
	Stripper and HEAF)	PM ₁₀	4.25	18.62
		NOx	0.22	0.96
		SO ₂	0.22	0.96
		VOC	2.40	10.51
		со	2.93	12.83
		Ammonia	5.50	24.09
42	V-3 Asphalt Applicator	РМ	0.18	0.79
		PM ₁₀	0.18	0.79
		voc	0.64	2.80
V-3 FUG	V-3 Line Fugitives (5)	РМ	1.39	6.09
		PM ₁₀	1.39	6.09
		PM _{2.5}	1.33	5.84
		NOx	0.05	<0.01
		SO ₂	0.08	0.31
		VOC	0.41	1.81
		СО	0.04	<0.01
		Ammonia	0.67	2.94
		Chlorides	0.28	1.25
10, 13, 22, 23, 40, 41, 55, 56	V-1, V-2, V-3 Manufacturing Line Total Including Starch- Based Binder Constituents (6)	VOC		157.34

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates (9)	
			lbs/hour	TPY (4)
2	V-1 Unloading Fugitives (5)	РМ	<0.01	<0.01
	. againes (e)	PM ₁₀	<0.01	<0.01
1	V-1 Batch House	РМ	<0.01	<0.01
		PM ₁₀	<0.01	<0.01
601	V-1 Batch Silos	РМ	<0.01	<0.01
		PM ₁₀	<0.01	<0.01
602	V-1 Batch Silos	РМ	<0.01	<0.01
		PM ₁₀	<0.01	<0.01
43	V-2/V-3 Unloading Fugitives (5)	РМ	0.04	0.03
		PM ₁₀	<0.01	<0.01
44	V-2/V-3 Batch House	РМ	<0.01	<0.01
		PM ₁₀	<0.01	<0.01
442	Cullet Piles (5)	РМ	0.09	0.39
		PM ₁₀	0.09	0.39
17	Binder Room (5)	voc	0.15	0.05
		Ammonia	0.10	0.43
18	Binder Room Fugitives (5)	voc	0.15	0.07
		Ammonia	0.17	0.73
620	Resin Storage Tank No. 1	voc	1.83	0.17
621	Resin Storage Tank No. 2	voc	1.83	0.17
622	Cross-Linker 1 Storage Tank	voc	<0.01	<0.01
623	Cross-Linker 2 Storage Tank	voc	<0.01	<0.01
32	Aqueous Ammonia Tank	Ammonia (aq)	0.08	0.34

- (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 aq - aqueous solution

- (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) For the purposes of demonstrating compliance with the representation that this site does not trigger prevention of significant deterioration for VOCs, the holder of this permit must comply with this additional limitation.
- (7) Emission rates for EPN 6 (V-1 Furnace Dry Electrostatic Precipitator Bypass Stack) apply during bypass use when the V-1 Furnace Dry Electrostatic Precipitator is not operational.
- (8) Emission rates apply during startup of the V-1 Furnace.
- (9) Planned startup and shutdown emissions are included. Maintenance activities, except as specified in Special Condition Nos. 29 through 33, are not authorized by this permit and will need separate authorization, unless the activity can meet the conditions of 30 TAC § 116.119.
- (10) Emission rates apply during batch charger maintenance overhead feeding activities.

Date:	April 30, 2020	
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