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. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Ra	ates (10)
(1)			lbs/hour	TPY (4)
7	V-1 Mixed Batch Bin	РМ	<0.01	<0.01
		PM ₁₀	<0.01	<0.01
58	V-1 Mixed Batch Transfer	РМ	<0.01	<0.01
	Transfer	PM ₁₀	<0.01	<0.01
3	V-1 Furnace Dry Electrostatic	РМ	2.50	10.95
	Precipitator Stack	PM ₁₀	2.50	10.95
		PM _{2.5}	2.13	9.31
		NO _x	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
	V-1 Furnace Dry Electrostatic	РМ	31.92	0.80
	Precipitator Bypass Stack (8)	PM ₁₀	31.92	0.80
	Stack (0)	PM _{2.5}	27.13	0.68
		NO _x	15.50	0.39
		SO ₂	1.49	0.04
		voc	1.59	0.04
		СО	0.82	0.02
		CO (9)	2.04	0.07

		Chlorides	7.76	0.19
10	V-1 Mixing Chamber Stack	PM	40.00	166.44
	Stack	PM ₁₀	40.00	166.44
		NO _x	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	РМ	3.00	13.14
	Exhaust Stack	PM ₁₀	3.00	13.14
		NO _x	0.13	0.57
		SO2	0.15	0.66
		voc	4.00	8.76
		со	1.59	6.96
		Ammonia	2.00	8.76
11 V-1 Facing Oven/Aspha Applicator	V-1 Facing	PM	0.09	0.40
		PM ₁₀	0.09	0.40
		PM _{2.5}	0.08	0.34
		NO _x	0.21	0.90
		SO ₂	0.01	0.04
		VOC	0.31	1.36
		со	0.17	0.75
V-1 FUG, 631	V-1 Line Fugitives (5)	PM	1.04	4.51
		PM ₁₀	1.04	4.51
		NO _x	1.21	5.30

	60	0.00	0.00
			0.09
	VOC	5.76	25.27
	со	1.02	4.45
	Chlorides	0.12	0.51
	Ammonia	0.42	1.82
V-2 Mixed Batch Bin	РМ	0.22	0.30
	PM ₁₀	0.22	0.30
V-2 Cullet Bin	PM	<0.01	<0.01
	PM ₁₀	<0.01	<0.01
V-2 Batch Charge	PM	<0.01	<0.01
Πορρεί	PM ₁₀	<0.01	<0.01
V-2 Furnace Stacks	PM	3.13	13.69
Combined)	PM ₁₀	3.13	13.69
	PM _{2.5}	1.72	7.53
	PM (11)	5.00	0.08
	PM ₁₀ (11)	5.00	0.08
	PM _{2.5} (11)	2.75	0.04
	NO _x	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
	V-2 Cullet Bin V-2 Batch Charge Hopper V-2 Furnace Stacks (East and West	Chlorides	VOC 5.76

1	•		T-	
22	V-2 Mixing Chamber Stack	PM	35.00	153.30
	Casa	PM ₁₀	35.00	153.30
		NO _x	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	РМ	4.25	18.62
	(Smoke Stripper and HEAF)	PM ₁₀	4.25	18.62
	1127 (1)	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 Asphalt Applicator	РМ	0.18	0.79
	Αρποαίοι	PM ₁₀	0.18	0.79
		VOC	0.64	2.80
V-2 FUG	V-2 Line Fugitives (5)	РМ	2.27	9.97
	(5)	PM ₁₀	2.27	9.97
		PM _{2.5}	2.17	9.50

	NO _x	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
V-3 Mixed Batch Bin	РМ	0.22	0.30
	PM ₁₀	0.22	0.30
V-3 Mixed Batch Bin	РМ	0.22	0.30
	PM ₁₀	0.22	0.30
V-3 Cullet Bin	РМ	<0.01	<0.01
	PM ₁₀	<0.01	<0.01
V-3 Batch Charge	РМ	<0.01	<0.01
Поррег	PM ₁₀	<0.01	<0.01
V-3 Furnace Stacks	РМ	3.13	13.69
Combined)	PM ₁₀	3.13	13.69
	PM _{2.5}	1.72	7.53
	PM (11)	5.00	0.08
	PM ₁₀ (11)	5.00	0.08
	PM _{2.5} (11)	2.75	0.04
	NO _x	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
	V-3 Mixed Batch Bin V-3 Cullet Bin V-3 Batch Charge Hopper V-3 Furnace Stacks (East and West	SO ₂ VOC CO Chlorides Ammonia PM PM ₁₀ PM _{2.5} PM (11) PM _{2.5} (11) NO _x SO ₂ VOC CO CO CO PM PM _{2.5} PM (11) PM _{2.5} PM (11) PM _{2.5} (11) NO _x SO ₂ VOC CO CO PM PM _{2.5} PM (11) PM _{2.5} PM (11) PM _{2.5} (11) NO _x SO ₂ VOC CO CO PM PM _{2.5} PM PM PM _{2.5} PM PM PM _{2.5} PM PM PM _{2.5} PM PM PM PM _{2.5} PM PM PM PM PM PM PM P	SO2 0.07

40	V-3 Mixing Chamber Stack	PM	35.00	153.30
	Stack	PM ₁₀	35.00	153.30
		NO _x	6.20	27.16
		SO ₂	0.98	4.29
		voc	10.50	45.99
		со	20.70	90.67
		Ammonia	26.00	113.88
56, 41	V-3 Cooling Section Exhaust Stack	РМ	4.25	18.62
	(Smoke Stripper and HEAF)	PM ₁₀	4.25	18.62
	TILAL)	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
42	V-3 Asphalt Applicator	PM	0.18	0.79
	Αρριισαίοι	PM ₁₀	0.18	0.79
		voc	0.64	2.80
V-3 FUG	V-3 Line Fugitives (5)	PM	1.39	6.09
	(5)	PM ₁₀	1.39	6.09
		PM _{2.5}	1.33	5.84
		NO _x	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
2	V-1 Unloading Fugitives (5)	РМ	<0.01	<0.01
	. agiiivee (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
	. agilives (5)	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
Permit by rule (PBR) slisted below:	sources incorporated	I by reference. Sources rema	ain authorized by th	e PBR(s) as
PBR 106.472 (NSR Re	gistration No. 78155, E	Effective Date: 3/24/2006)		
30	Triazone Resin Storage Tank	Formaldehyde	0.02	<0.01
PBR 106.371 (NSR Re	gistration No. 84393, E	Effective Date: 4/10/2008)		
85	Cullet Water Cooling Tower	РМ	0.12	0.51
	Tower.	PM ₁₀	0.12	0.51
PBR 106.472 (7)				
31	Asphalt Storage Tank	РМ	2.04	0.03
	Tank	PM ₁₀	2.04	0.03
		voc	7.23	0.12
61	Adhesive Tank No. 1	voc	<0.01	<0.01
62	Adhesive Tank No. 2	voc	<0.01	<0.01
34	Urea Solution Tank	Ammonia	<0.01	<0.01
45	Urea Mix Tank	Ammonia	<0.01	<0.01
29	Resin Storage Tank	VOC	<0.01	<0.01
		Formaldehyde	<0.01	<0.01
		Phenol	<0.01	<0.01
		Methanol	<0.01	<0.01
35	Resin Storage Tank	voc	<0.01	<0.01
		Formaldehyde	<0.01	<0.01
		Phenol	<0.01	<0.01
		Methanol	<0.01	<0.01

33	MT Oil Storage Tank	VOC	<0.01	<0.01
76	Equalization Basins	VOC	<0.01	<0.01
		Formaldehyde	<0.01	<0.01
		Phenol	<0.01	<0.01
		Methanol	<0.01	<0.01
28	Wash Water Surge Tank	voc	<0.01	<0.01
	Tank	Formaldehyde	<0.01	<0.01
		Phenol	<0.01	<0.01
		Methanol	<0.01	<0.01
88	Wash Water Surge Tank	voc	<0.01	<0.01
	Tarik	Formaldehyde	<0.01	<0.01
		Phenol	<0.01	<0.01
		Methanol	<0.01	<0.01
Standard Exemp	tion 7 (7)			
4	Gas-Fired Boiler (North)	РМ	0.15	0.67
	(itoral)	PM ₁₀	0.15	0.67
		NO _x	0.72	3.15
		SO ₂	0.01	0.05
		voc	0.11	0.48
		со	1.68	7.36
5	Gas-Fired Boiler	PM	0.15	0.67
	(South)	PM ₁₀	0.15	0.67
				0.67 3.15
		PM ₁₀	0.15	
		PM ₁₀ NO _x	0.15 0.72	3.15

- (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 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 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) PBR 106.472 and Standard Exemption 7 do not require registration so a registration number and an effective date are unavailable.
- (8) 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.
- (9) Emission rates apply during startup of the V-1 Furnace.
- (10) Planned startup and shutdown emissions are included. Maintenance activities, except as specified in Special Condition Nos. 28 through 32, are not authorized by this permit and will need separate authorization, unless the activity can meet the conditions of 30 TAC § 116.119.
- (11) Emission rates apply during batch charger maintenance overhead feeding activities.

Date:	March 23, 2015	