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.	Source Name (2)	Air Contaminant Name (3)	Emission Rates (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
	Transier	PM ₁₀	<0.01	<0.01
3	V-1 Furnace and V-2 Riser/Dry	РМ	2.52	11.04
	Electrostatic Precipitator Stack	PM ₁₀	2.52	11.04
	Treoiphator Glack	PM _{2.5}	2.15	9.40
		NO _x	16.07	70.38
		SO ₂	1.52	6.65
		voc	1.62	7.09
		со	1.19	5.20
		Chlorides	0.41	1.81
6	V-1 Furnace Dry Electrostatic Precipitator Bypass Stack (8)	РМ	31.92	0.80
		PM ₁₀	31.92	0.80
		PM _{2.5}	27.13	0.68
		NO _x	15.63	0.48
		SO ₂	1.50	0.04
		voc	1.59	0.04
		со	0.82	0.02
		CO (9)	2.04	0.07

		Chlorides	13.33	0.33
10	V-1 Mixing Chamber Stack	PM	40.00	166.44
	Stuck	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	PM	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/Asphalt	PM	0.09	0.40
	Applicator	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
	(3)	PM ₁₀	1.04	4.51
		NO _x	1.21	5.30

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		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	PM	<0.01	<0.01
	Поррег	PM ₁₀	<0.01	<0.01
19, 20	V-2 Furnace Stacks (East and West	PM	3.50	15.33
	Combined)	PM ₁₀	3.50	15.33
		PM _{2.5}	1.93	8.45
		PM (11)	5.00	0.08
		PM ₁₀ (11)	5.00	0.08
		PM _{2.5} (11)	2.75	0.04
		NO _x	76.60	335.51
		SO ₂	1.00	4.38
		voc	1.81	8.00
		со	0.60	2.63
		Chlorides	0.40	1.76
21	V-2 Riser Bypass Stack (8)	PM	0.82	0.02
	Stack (o)	PM ₁₀	0.82	0.02
		PM _{2.5}	0.82	0.02

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		NO _x	0.44	0.01
		SO ₂	0.02	<0.01
		VOC	0.03	<0.01
		со	0.37	0.01
		Chlorides	0.05	<0.01
22	V-2 Mixing Chamber Stack	РМ	35.00	153.30
	Stack	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	PM	4.25	18.62
		PM ₁₀	4.25	18.62
	TIEAL)	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
	принасы	PM ₁₀	0.18	0.79
		VOC	0.64	2.80
V-2 FUG	V-2 Line Fugitives (5)	PM	2.27	9.97
	(0)	PM ₁₀	2.27	9.97
		NO _x	2.51	10.99

		SO ₂	0.07	0.31
		voc	0.55	2.41
		со	2.11	9.24
		Chlorides	0.23	1.03
		Ammonia	0.64	2.82
36	V-3 Mixed Batch Bin	РМ	0.22	0.30
		PM ₁₀	0.22	0.30
37	V-3 Mixed Batch Bin	РМ	0.22	0.30
		PM ₁₀	0.22	0.30
445	V-3 Cullet Bin	РМ	<0.01	<0.01
		PM ₁₀	<0.01	<0.01
51	V-3 Batch Charge Hopper	РМ	<0.01	<0.01
	Поррег	PM ₁₀	<0.01	<0.01
38, 39	V-3 Furnace Stacks (East and West	РМ	3.50	15.33
	Combined)	PM ₁₀	3.50	15.33
		PM _{2.5}	1.93	8.45
		PM (11)	5.00	0.08
		PM ₁₀ (11)	5.00	0.08
		PM _{2.5} (11)	2.75	0.04
		NO _x	76.60	335.51
		SO ₂	1.00	4.38
		voc	1.81	8.00
		со	0.60	2.63
		Chlorides	0.40	1.75
40	V-3 Mixing Chamber Stack	РМ	35.00	153.30

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		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	РМ	4.25	18.62
	Exhaust Stack (Smoke Stripper and	PM ₁₀	4.25	18.62
	HEAF)	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	РМ	0.18	0.79
	Αρριισαίοι	PM ₁₀	0.18	0.79
		VOC	0.64	2.80
V-3 FUG	V-3 Line Fugitives	РМ	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
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55, 56	Manufacturing Line Total Including Starch-Based Binder Constituents (6)			
2	V-1 Unloading	РМ	<0.01	<0.01
	Fugitives (5)	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
	T ugitives (5)	PM ₁₀	<0.01	<0.01
44	V-2/V-3 Batch House	РМ	<0.01	<0.01
	House	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
	rugilives (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:	Permit by rule (PBR) sources incorporated by reference. Sources remain authorized by the PBR(s) as listed below:					
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		
		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		

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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
		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
	Tank	Formaldehyde	<0.01	<0.01
		Phenol	<0.01	<0.01
		Methanol	<0.01	<0.01
Standard Exemption	7 (7)			
4	Gas-Fired Boiler (North)	PM	0.15	0.67
	((VOTUI)	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 (South)	PM	0.15	0.67
	(County)	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

- (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) and EPN 21 (V-2 Riser 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:	October 30, 2013	