EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

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. 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 * lb/hr	TPY
7	V-1 Mixed Batch Bin	PM/PM_{10}	<0.01	<0.01
8	V-1 Mixed Batch Bin	PM/PM_{10}	<0.01	<0.01
58	V-1 Mixed Batch Transfer	PM/PM_{10}	<0.01	<0.01
3	V-1 Furnace/Dry Electrostatic Precipitator Stack	PM/PM_{10}	2.50	10.94
		NO_x	15.63	68.47
		SO_2	1.50	6.57
		VOC	1.59	6.98
		CO	0.82	3.60
		Chlorides	0.36	1.59
10	V-1 Mixing Chamber Stack	PM/PM_{10}	40.00	166.44
		NO_x	22.60	98.99
		SO_2	7.25	31.76
		VOC(a)	20.00	96.36
		CO	24.00	105.12
		Ammonia	40.00	175.20
13	V-1 Cooling Section	PM/PM_{10}	3.00	13.14
		VOC(a)	4.00	8.76
		Ammonia	2.00	8.76
11	V-1 Facing Oven/Asphalt Applicator	PM/PM_{10}	0.10	0.44
		NO_x	0.04	0.18
		SO_2	0.01	0.04
		VOC	0.31	1.36
		CO	0.04	0.18

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates * lb/hr	TPY
V-1 Fug, 631	V-1 Line Fugitives (4)	PM/PM_{10}	1.04	4.51
		NO_x	1.21	5.30
		SO_2	0.03	0.09
		VOC	5.76	25.27
		CO	1.02	4.45
		Chlorides	0.12	0.51
		Ammonia	0.42	1.82
26	V-2 Mixed Batch Bin	PM/PM_{10}	0.22	0.30
444	V-2 Cullet Bin	PM/PM_{10}	<0.01	<0.01
50	V-2 Batch Charge Hopper	PM/PM_{10}	<0.01	<0.01
19, 20	V-2 Furnace Stacks	PM/PM_{10}	3.50	15.33
	(East and West combined)	NO_x	76.60	335.51
		SO_2	1.00	4.38
		VOC	1.81	8.00
		CO	0.60	2.63
		Chlorides	0.40	1.76
21	V-2 Conditioning	PM/PM_{10}	0.82	3.59
		NO_x	0.44	1.91
		SO_2	0.02	0.08
		VOC	0.03	0.11
		CO	0.37	1.60
		Chlorides	0.05	0.22
22	V-2 Mixing Chamber Stack	PM/PM_{10}	35.00	153.30
		NO_x	12.00	52.56
		SO_2	6.00	26.28
		VOC(a)	10.50	45.99
		CO	19.00	83.22
		Ammonia	30.00	131.40
55, 23	V-2 Cooling Section	PM/PM_{10}	4.25	18.62
	(Smoke Stripper	VOC(a)	2.40	10.51

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates * lb/hr	TPY
	and HEAF)	Ammonia	5.50	24.09
52	V-2 Asphalt Applicator	PM/PM_{10}	0.18	0.79
		VOC	0.64	2.80
V-2 Fug	V-2 Line Fugitives (4)	PM/PM_{10}	2.15	9.41
		NO_x	2.51	10.99
		SO_2	0.07	0.31
		VOC	0.50	2.18
		CO	2.11	9.24
		Chlorides	0.23	1.03
		Ammonia	0.64	2.82
36	V-3 Mixed Batch Bin	PM/PM_{10}	0.22	0.30
37	V-3 Mixed Batch Bin	PM/PM_{10}	0.22	0.30
445	V-3 Cullet Bin	PM/PM_{10}	<0.01	<0.01
51	V-3 Batch Charge Hopper	PM/PM_{10}	<0.01	<0.01
38, 39	V-3 Furnace Stacks (East and West combined)	PM/PM_{10}	3.50	15.33
		NO_x	76.60	335.51
		SO_2	1.00	4.38
		VOC	1.81	8.00
		CO	0.60	2.63
		Chlorides	0.40	1.75
40	V-3 Mixing Chamber Stack	PM/PM_{10}	35.00	153.30
		NO_x	14.00	61.32
		SO_2	10.00	43.80
		VOC(a)	10.50	45.99
		CO	20.70	90.67
		Ammonia	26.00	113.88

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AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates * lb/hr	TPY
56, 41	V-3 Cooling Section (Smoke Stripper HEAF)	PM/PM_{10}	4.25	18.62
		VOC(a)	2.40	10.51
		Ammonia	5.50	24.09
42	V-3 Asphalt Applicator	PM/PM_{10}	0.18	0.79
		VOC	0.64	2.80
V-3 Fug	V-3 Line Fugitives (4)	PM/PM_{10}	1.39	6.09
		SO_2	0.08	0.31
		VOC	0.41	1.81
		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	VOC	-	157.34
2	V-1 Unloading Fugitives (4)	PM/PM_{10}	<0.01	<0.01
1	V-1 Batch House	PM/PM_{10}	<0.01	<0.01
601	V-1 Batch Silos	PM/PM_{10}	<0.01	<0.01
602	V-1 Batch Silos	PM/PM_{10}	<0.01	<0.01
43	V-2/V-3 Unloading Fugitives (4)	PM	0.04	0.03
		PM_{10}	<0.01	<0.01
44	V-2/V-3 Batch House	PM/PM_{10}	<0.01	<0.01
442	Cullet Pile (4)	PM/PM_{10}	0.09	0.39
17	Binder Room (4)	VOC	0.15	0.05
		Ammonia	0.10	0.43
18	Binder Room Fugitives (4)	VOC	0.15	0.07
		Ammonia	0.17	0.73

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AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates * lb/hr	TPY
620	Resin 1 Storage Tank No. 1	VOC	1.83	0.17
621	Resin 1 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
Existing Permit-by-Rule (PBR) and Standard Exemption Authorizations				
31	Asphalt Storage Tank (b)	PM/PM_{10}	2.04	0.03
		VOC	7.23	0.12
61	Adhesive Tank No. 1 (b)	VOC	<0.01	<0.01
62	Adhesive Tank No. 2 (b)	VOC	<0.01	<0.01
34	Urea Solution Tank (b)	Ammonia	<0.01	<0.01
45	Urea Mix Tank (b)	Ammonia	<0.01	<0.01
29	Resin Storage Tank (b)	VOC	<0.01	<0.01
		Formaldehyde	<0.01	<0.01
		Phenol	<0.01	<0.01
		Methanol	<0.01	<0.01
35	Resin Storage Tank (b)	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 (b)	VOC	<0.01	<0.01

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates * lb/hr	TPY
76	Equalization Basins (b)	VOC	<0.01	<0.01
		Formaldehyde	<0.01	<0.01
		Phenol	<0.01	<0.01
		Ammonia	<0.01	<0.01
28	Wash Water Surge Tank (b)	VOC	<0.01	<0.01
		Formaldehyde	<0.01	<0.01
		Phenol	<0.01	<0.01
		Ammonia	<0.01	<0.01
88	Wash Water Surge Tank (b)	VOC	<0.01	<0.01
		Formaldehyde	<0.01	<0.01
		Phenol	<0.01	<0.01
		Ammonia	<0.01	<0.01
4	Gas-Fired Boiler (North)	PM/PM_{10}	0.15	0.67
		NO_x	2.00	8.76
		SO_2	0.01	0.05
		VOC	0.11	0.48
		CO	1.68	7.36
5	Gas Fired Boiler (South)	PM/PM_{10}	0.15	0.67
		NO_x	2.00	8.76
		SO_2	0.01	0.05
		VOC	0.11	0.48
		CO	1.68	7.36
85	Cullet Water Cooling Tower	PM/PM_{10}	0.12	0.51
30	Triazone Resin Storage Tank	Formaldehyde	0.02	<0.01

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates * lb/hr	TPY

(1) Emission point identification - either specific equipment designation or emission point number from a plot plan.
(2) Specific point source names. For fugitive sources use area name or fugitive source name.
(3) PM - particulate matter, suspended in the atmosphere, including PM_{10}
PM_{10} - particulate matter equal to or less than 10 microns in diameter. Where PM is not listed, it shall be assumed that no particulate matter greater than 10 microns is emitted.
$PM_{2.5}$ - particulate matter equal to or less than 2.5 microns in diameter. Where PM is not listed, it shall be assumed that no particulate matter greater than 2.5 microns is emitted.
NO_x - total oxides of nitrogen
SO_2 - sulfur dioxide
VOC - volatile organic compound as defined in Title 30 Texas Administrative Code (30 TAC ' 101.1
CO - carbon monoxide
aq - aqueous

(4) Fugitive emissions are an estimate only.

Footnotes:

(a) This VOC is defined as the sum of the individual components, which are identified as phenol, methanol, and formaldehyde when the phenol/formaldehyde-based binder is in use.

(b) Sources incorporated by reference and authorized through 30 TAC ' 106.472. This PBR does not require registration so a registration number and an effective date are unavailable.

* Emission rates are based on and the facilities are limited to the production rates listed in the Confidential File Summary.

Dated