

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Numbers 5667 and PSD-TX-784M1

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
E-1	Silo No. 1 Baghouse	PM/PM ₁₀	0.08	0.35
E-2	Silo No. 2 Baghouse	PM/PM ₁₀	0.08	0.35
E-2A	Silo No. 2 Baghouse	PM/PM ₁₀	0.14	0.61
E-3	Silo No. 3 Baghouse	PM/PM ₁₀	0.08	0.35
E-3A	Silo No. 3 Baghouse	PM/PM ₁₀	0.14	0.61
E-4	Silo No. 4 Baghouse	PM/PM ₁₀	0.08	0.35
E-5	Silo No. 5 Baghouse	PM/PM ₁₀	0.08	0.35
E-6	Silo No. 6 Baghouse	PM/PM ₁₀	0.08	0.35
E-7A	Silo No. 7A Baghouse	PM/PM ₁₀	0.08	0.35
E-7B	Silo No. 7B Baghouse	PM/PM ₁₀	0.08	0.35
E-8	Silo No. 8 Baghouse	PM/PM ₁₀	0.08	0.35
E-9	Silo No. 9 Baghouse	PM/PM ₁₀	0.08	0.35
E-10	Silo No. 10 Baghouse	PM/PM ₁₀	0.15	0.66
E-11	Silo No. 11 Baghouse	PM/PM ₁₀	0.05	0.22
E-12	Silo No. 12 Baghouse	PM/PM ₁₀	0.08	0.35

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u>	
			lb/hr	TPY
E-15	Batch Blender No. 2	PM/PM ₁₀	0.11	0.48
E-15A	Batch Blender No. 2	PM/PM ₁₀	0.11	0.48
E-16	Batch Blender No. 3	PM/PM ₁₀	0.16	0.70
E-16A	Batch Blender No. 3	PM/PM ₁₀	0.16	0.70
E-17	Scale 5 Baghouse	PM/PM ₁₀	0.09	0.39
E-18	BH Vacuum Baghouse	PM/PM ₁₀	0.04	0.18
E-19	Scale Hopper Baghouse	PM/PM ₁₀	0.09	0.39
E-21A	Furnace No. 1 ESP and Scrubber	PM/PM ₁₀	5.63	24.66
		VOC	0.19	0.83
		NO _x	11.81	51.73
		SO ₂	7.88	34.51
		CO	2.81	10.00
E-23A	Furnace No. 3 ESP and Scrubber	PM/PM ₁₀	5.46	23.91
		SO ₂	6.66	29.17
		NO _x	11.46	50.19
		CO	2.73	7.50
		VOC	0.28	1.23
E-24A	Furnace No. 4 ESP and Scrubber	PM/PM ₁₀	4.58	20.06
		SO ₂	11.14	48.79
		NO _x	9.63	42.18
		CO	2.29	7.50
		VOC	0.22	0.96
E-25	Batch Hold Bin No. 1 Baghouse	PM/PM ₁₀	0.16	0.70
E-26	Batch Hold Bin No. 2 Baghouse	PM/PM ₁₀	0.16	0.70

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

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u>	
			lb/hr	TPY
E-27A	Batch Hold Bin No. 3A Baghouse	PM/PM ₁₀	0.25	1.10
E-27B	Batch Hold Bin No. 3B Baghouse	PM/PM ₁₀	0.16	0.70
E-28	Batch Hold Bin No. 4 Baghouse	PM/PM ₁₀	0.25	1.10
E-30	Cleaning Oven	VOC	0.33	1.42
E-31 A-F	Hot Air Dryer No. 31	PM/PM ₁₀	0.71	(10)
		SO ₂	<0.01	
		NO _x	0.94	
		CO	2.61	
		VOC	0.03	
		VOC (Size)	(5)	
		Base	(8)	
E-32 A-F	Hot Air Dryer No. 32	PM/PM ₁₀	0.71	(10)
		SO ₂	<0.01	
		NO _x	0.94	
		CO	2.61	
		VOC	0.03	
		VOC (Size)	(5)	
		Base	(8)	
E-33 A-D	Hot Air Dryer No. 33	PM/PM ₁₀	0.71	(10)
		SO ₂	<0.01	
		NO _x	0.94	
		CO	5.51	
		VOC	0.03	
		VOC (Size)	(5)	
		Base	(8)	

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u>	
			lb/hr	TPY
E-34 A-D	Hot Air Dryer No. 34	PM/PM ₁₀	0.71	(10)
		SO ₂	<0.01	
		NO _x	0.94	
		CO	5.51	
		VOC	0.03	
		VOC (Size)	(5)	
		Base	(8)	
E-35 A-D	Hot Air Dryer No. 35	PM/PM ₁₀	0.71	(10)
		SO ₂	<0.01	
		NO _x	0.94	
		CO	5.51	
		VOC	0.03	
		VOC (Size)	(5)	
		Base	(8)	
E-36 A-D	Hot Air Dryer No. 36	PM/PM ₁₀	0.71	(10)
		SO ₂	<0.01	
		NO _x	0.94	
		CO	5.51	
		VOC	0.03	
		VOC (Size)	(5)	
		Base	(8)	
E-38 A-J	Dielectric Oven No. 38	PM/PM ₁₀	0.38	1.66
		VOC (Size)	(5)	(5)
		Base	(8)	(8)
E-39, E-99, E-100 E-112 and E-113	Grouped RTP Dryers and Choppers (RTP Dryer No. 15 Baghouse; RTP Dryer No. 10 and RTP Chopper No. 10 Baghouse; RTP Dryer No. 11 and RTP Chopper No. 11 Baghouse; RTP Dryer No. 12 Baghouse; and RTP Dryer No. 13 Baghouse)	PM/PM ₁₀	1.75	7.67
		SO ₂	<0.01	0.04
		NO _x	0.99	4.34
		CO	0.83	3.64
		VOC	0.05	0.22
		VOC (Size)	(5)	(5)
		Base	(8)	(8)

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u>	
			lb/hr	TPY
E-41 A-E	Mat Line (Dryers and Cleaner)	PM/PM ₁₀	1.32	5.78
		VOC	0.02	0.09
		NO _x	0.45	1.97
		SO ₂	<0.01	0.01
		CO	0.38	1.66
E-42 A and B	Dielectric Dryer No. 1	PM/PM ₁₀	0.11	0.48
		VOC (Size)	(5)	(5)
		Base	(8)	(8)
E-43 A and B	Dielectric Dryer No. 8	PM/PM ₁₀	0.11	0.48
		VOC (Size)	(5)	(5)
		Base	(8)	(8)
E-45 A-D	Hot Air Dryer No. 45	PM/PM ₁₀	0.71	(10)
		SO ₂	<0.01	
		NO _x	0.94	
		CO	5.51	
		VOC	0.03	
		VOC (Size)	(5)	
		Base	(8)	
E-52	Boiler No. 2	PM/PM ₁₀	0.19	0.83
		VOC	0.14	0.61
		NO _x	2.48	10.86
		SO ₂	0.02	0.07
		CO	2.08	9.11
E-71	Propane Flare	PM/PM ₁₀	0.18	0.02
		VOC	13.28	1.33
		NO _x	3.65	0.37
		SO ₂	0.49	0.05
		CO	7.29	0.73
E-72 and E-76	Fuel Fugitives and Diesel Storage Tank (4)	VOC	3.06	13.42

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u>	
			lb/hr	TPY
E-75A	Propane Evaporator No. 1	PM/PM ₁₀	0.01	<0.01
		VOC	0.01	<0.01
		NO _x	0.19	0.05
		SO ₂	<0.01	<0.01
		CO	0.16	0.04
E-75B	Propane Evaporator No. 2	PM/PM ₁₀	0.02	0.01
		VOC	0.01	<0.01
		NO _x	0.21	0.05
		SO ₂	<0.01	<0.01
		CO	0.17	0.04
E-75C	Propane Evaporator No. 3	PM/PM ₁₀	0.02	0.01
		VOC	0.01	<0.01
		NO _x	0.21	0.05
		SO ₂	<0.01	<0.01
		CO	0.17	0.04
E-75D	Propane Evaporator No. 4	PM/PM ₁₀	0.02	0.01
		VOC	0.01	<0.01
		NO _x	0.21	0.05
		SO ₂	<0.01	<0.01
		CO	0.17	0.04
E-81 and E-82	Forming Line No. 1 and No. 2 Scrubbers	PM/PM ₁₀	4.70	20.59
		VOC (Size)	(5)	(5)
		Base	(8)	(8)
E-83, E-86A and B, and E-84	Forming Line No. 3 Scrubbers and Forming Line No. 4 Scrubber	PM/PM ₁₀	5.51	24.13
		VOC (Size)	(5)	(5)
		Base	(8)	(8)
E-91 and E-92	Consolidated Furnaces No. 1 and No. 2 Forehearths	PM/PM ₁₀	0.13	0.57
		VOC	0.09	0.39
		NO _x	1.68	7.36
		SO ₂	<0.01	0.04

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY
		CO	1.41	6.18
E-93	Furnace No. 3 Forehearth	PM/PM ₁₀	0.05	0.22
		SO ₂	<0.01	0.02
		NO _x	0.60	2.63
		CO	0.50	2.19
		VOC	0.03	0.13
E-94	Furnace No. 4 Forehearth and RTP Chopper 14 and 15 Baghouses	PM/PM ₁₀	0.30	1.32
		SO ₂	0.01	0.04
		NO _x	0.98	4.29
		CO	0.82	3.59
		VOC	0.05	0.22
E-95	No. 1 Scales Batch Blender Baghouse	PM/PM ₁₀	0.11	0.48
E-97	No. 1 Reject Batch Tank Baghouse	PM/PM ₁₀	0.11	0.05
E-98 A-D	Hot Air Dryer No. 98	PM/PM ₁₀	0.71	(10)
		NO _x	0.93	
		SO ₂	<0.01	
		CO	5.51	
		VOC	0.03	
		VOC (Size)	(5)	
		Base	(8)	
E-98 A-D, E-31 A-F through E-36 A-D, and E-45 A-D	Grouped Hot Air Dryers Nos. 31, 32, 33, 34, 35, 36, 45, and 98	PM/PM ₁₀	----	5.76
		NO _x	----	32.93
		SO ₂	----	0.12
		CO	----	34.92
		VOC	----	1.07
		VOC (Size)	----	(5)
		Base	----	(8)
E-101	Dielectric Oven No. 101	PM/PM ₁₀	0.08	0.35
		VOC (Size)	(5)	(5)
		Base	(8)	(8)
E-105	Post Curing Oven No. 1	PM/PM ₁₀	0.01	0.04

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u>	
			lb/hr	TPY
		VOC	<0.01	0.04
		NO _x	0.08	0.35
		SO ₂	<0.01	0.04
		CO	0.07	0.31
E-106	Post Curing Oven No. 2	PM/PM ₁₀	0.01	0.04
		VOC	0.01	0.04
		NO _x	0.10	0.44
		SO ₂	<0.01	0.04
		CO	0.08	0.35
E-107	Post Curing Oven No. 3	PM/PM ₁₀	0.01	0.04
		VOC	0.01	0.04
		NO _x	0.10	0.44
		SO ₂	<0.01	0.04
		CO	0.08	0.35
E-109	Pneumatic Transfer Hold Tank Baghouse	PM/PM ₁₀	0.15	0.66
E-115	RR Unloading Area Vacuum Cleaning System Baghouse	PM/PM ₁₀	0.03	0.04
E-116	RTP Dryer No. 16 Baghouse	PM/PM ₁₀	0.58	2.54
		SO ₂	<0.01	0.04
		NO _x	0.39	1.71
		CO	0.33	1.45
		VOC	0.02	0.09
		VOC (Size)	(5)	(5)
		Base	(8)	(8)
E-117	RTP Dryer No. 17 Baghouse	PM/PM ₁₀	0.58	2.54
		SO ₂	<0.01	0.04
		NO _x	0.39	1.71
		CO	0.33	1.45
		VOC	0.02	0.09
		VOC (Size)	(5)	(5)

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	AIR CONTAMINANTS DATA	
			<u>Emission Rates *</u>	
			lb/hr	TPY
		Base	(8)	(8)
E-119	RTP Chopper Nos. 7, 8, 12, and 13 Baghouse	PM/PM ₁₀	0.46	2.01
E-121	Twintex Vacuum Conveying System No. 1 Baghouse	PM/PM ₁₀	0.01	0.04
E-122	Twintex Vacuum Conveying System No. 2 Baghouse	PM/PM ₁₀	0.01	0.04
E-123	Furnace No. 2 Twintex Extruder and Fiberization System	VOC	0.67	2.93
E-124	Twintex Raw Material Storage Silo P-4 Baghouse	PM/PM ₁₀	0.04	----
E-125	Twintex Raw Material Storage Silo P-5 Baghouse	PM/PM ₁₀	0.04	----
E-126	Twintex Raw Material Storage Silo P-6 Baghouse	PM/PM ₁₀	0.04	----
E-127	Twintex Raw Material Storage Silo P-7 Baghouse	PM/PM ₁₀	0.04	----
E-128	Twintex Raw Material Storage Silo P-8 Baghouse	PM/PM ₁₀	0.04	----
E-129	Twintex Raw Material Storage Silo P-9 Baghouse	PM/PM ₁₀	0.04	----
E-124 through E-129	Twintex Raw Material Storage Silos P-4 through P-9 Baghouses	PM/PM ₁₀	----	0.18
E-130	RTP Chopper Nos. 18 and 19 Baghouse	PM/PM ₁₀	0.23	1.01

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	AIR CONTAMINANTS DATA	
			<u>Emission Rates *</u>	
			<u>lb/hr</u>	<u>TPY</u>
E-131	Twintex Pellet Line Dryer and Rod Extruder	PM ₁₀ VOC	0.21 0.16	0.92 0.70
E-132-FUG	Twintex Pellet Sizing and Packaging		PM ₁₀ 0.01	0.04
E-147A and B	Cleaning Stations 2 and 3	VOC	0.98	0.66
E-147C	Cleaning Station 4	VOC	0.49	0.33
E-155	Research and Design Spray-Up Booth	Styrene	2.53	0.51
		Methyl Methacrylate	0.23	0.05
		Acetone	4.57	2.50
F-510 A and B	Batch Blender (6) Baghouse	PM/PM ₁₀ (9)	0.04	0.18
F-513	Furnace No. 5 Storage A Baghouse	PM/PM ₁₀ (9)	0.03	0.13
F-514	Furnace No. 5 Storage B Baghouse	PM/PM ₁₀ (9)	0.03	0.13
F-515	Furnace No. 5 Dry Scrubber and ESP (7)c	PM/PM ₁₀ (9)	9.17	40.16
		VOC (9)	0.36	1.58
		NO _x (9)	19.25	84.32
		SO ₂	12.83	56.20
		CO	4.58	20.06
F-516 A-C	Furnace No. 5 Hot Air Dryer No. 1	PM/PM ₁₀ (9)	0.22	0.96
		NO _x (9)	0.49	2.15
		SO ₂	<0.01	0.04
		CO	0.61	2.67
		VOC (9)	0.03	0.13
		VOC (Size) (9)	(5)	(5)

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u>	
			lb/hr	TPY
		Base	(8)	(8)
F-517 A-C	Furnace No. 5 Hot Air Dryer No. 2	PM/PM ₁₀ (9)	0.22	0.96
		NO _x (9)	0.49	2.15
		SO ₂	0.01	0.04
		CO	0.61	2.67
		VOC (9)	0.03	0.13
		VOC (Size) (9)	(5)	(5)
		Base	(8)	(8)
F-518 A-C	Furnace No. 5 Hot Air Dryer No. 3	PM/PM ₁₀ (9)	0.22	0.96
		NO _x (9)	0.49	2.15
		SO ₂	0.01	0.04
		CO	0.61	2.67
		VOC (9)	0.03	0.13
		VOC (Size) (9)	(5)	(5)
		Base	(8)	(8)
F-519 A-C	Furnace No. 5 Hot Air Dryer No. 4	PM/PM ₁₀ (9)	0.22	0.96
		NO _x (9)	0.49	2.15
		SO ₂	0.01	0.04
		CO	0.61	2.67
		VOC (9)	0.03	0.13
		VOC (Size) (9)	(5)	(5)
		Base	(8)	(8)
F-520 A-C	Furnace No. 5 Hot Air Dryer No. 5	PM/PM ₁₀ (9)	0.22	0.96
		NO _x (9)	0.49	2.15
		SO ₂	0.01	0.04
		CO	0.61	2.67
		VOC (9)	0.03	0.13

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY
		VOC (Size) (9)	(5)	(5)
		Base	(8)	(8)
F-521A-C	Furnace No. 5 Hot Air Dryer No. 6	PM/PM ₁₀	0.22	0.96
		NO _x	0.49	2.15
		SO ₂	<0.01	0.04
		CO	0.61	2.67
		VOC	0.03	0.13
		VOC (Size)	(5)	(5)
		Base	(8)	(8)
F-522	Furnace No. 5 Forehearth Monitor	PM/PM ₁₀ (9)	0.14	0.61
		VOC (9)	0.10	0.44
		NO _x (9)	1.80	7.88
		SO ₂	0.01	0.04
		CO	1.51	6.61
F-531	Furnace No. 5 Curing Oven Nos. 1 and 2	PM/PM ₁₀ (9)	0.05	0.22
		NO _x (9)	0.71	3.11
		SO ₂	<0.01	0.04
		CO	0.60	2.63
		VOC (9)	0.04	0.18
		VOC (Size) (9)	(5)	(5)
F-532	Furnace 5 Post-Coat Vent 1	PM/PM ₁₀	0.04	0.18
		VOC	0.01	0.06
F-533	Furnace 5 Post-Coat Vent 2	PM/PM ₁₀	0.04	0.18
		VOC	0.01	0.06
F-535	Boiler No. 3	PM/PM ₁₀ (9)	0.13	0.57
		VOC (9)	0.09	0.39
		NO _x (9)	1.67	7.31
		SO ₂	0.01	0.04
		CO	1.40	6.13

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY
F-541	Line No. 5 Forming Machine Scrubbers	PM/PM ₁₀ (9)	6.37	27.90
		VOC (Size) (9)	(5)	(5)
		Base	(8)	(8)
F-542 A-D	Furnace 5 Post-Curing Oven No. 3	PM/PM ₁₀	0.01	0.04
		NO _x	0.15	0.66
		SO ₂	<0.01	0.04
		CO	0.12	0.53
		VOC	0.01	0.04
F-543 A-D	Furnace 5 Post-Curing Oven No. 4	PM/PM ₁₀	0.01	0.04
		NO _x	0.15	0.66
		SO ₂	<0.01	0.04
		CO	0.12	0.53
		VOC	0.01	0.04
E-544	Furnace 5 RTP Chopper 1	PM/PM ₁₀	0.23	1.01
E-545	Furnace 5 RTP Chopper 2	PM/PM ₁₀	0.23	1.01
E-546	Furnace 5 RTP Dryer 1	PM/PM ₁₀	0.57	2.50
		NO _x	0.39	1.74
		SO ₂	<0.01	0.01
		CO	0.33	1.45
		VOC	0.02	0.09

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u>	
			lb/hr	TPY
E-547	Furnace 5 RTP Dryer 2	PM/PM ₁₀	0.57	2.50
		NO _x	0.39	1.74
		SO ₂	<0.01	0.01
		CO	0.33	1.45
		VOC	0.02	0.09
FUG-11	Material Sizing Area Fugitives (4)	VOC (Size)	(5)	(5)
		Base	(8)	(8)
FUG-12	Size Staging Area Nos. 1 and 2 Fugitives (4)	VOC (Size)	(5)	(5)
		Base	(8)	(8)
FUG-13	Size Staging Area Nos. 3 and 4 Fugitives (4)	VOC (Size)	(5)	(5)
		Base	(8)	(8)
FUG-5	Furnace No. 5 Fugitives (4)	VOC (Size) (9)	(5)	(5)
		Base	(8)	(8)
WWPTP	Wastewater Pretreatment Fugitives (4)	VOC (Size)	(5)	(5)
		Base	(8)	(8)

(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 PM₁₀

PM₁₀ - 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.

VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1.

NO_x - total oxides of nitrogen

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

SO₂ - sulfur dioxide
CO - carbon monoxide
Base - water-soluble hydroxide

- (4) Fugitive emissions are an estimate only.
- (5) All noted emission point numbers (EPNs) are combined and included as "Total Size Compound VOCs" for the Furnaces 1, 3, 4, and 5 Manufacturing Lines. The VOC emissions from combustion from these sources, if any, are listed separately for each emission point. "Total Size Compound VOCs" are limited to 398.80 pounds per hour (lb/hr) and 272.78 tons per year (tpy).
- (6) Emissions from EPNs F-510A and F-510B shall not occur simultaneously.
- (7) The PM emission limit for Furnace 5 (EPN F-515) shall not exceed 0.024 grain per dry standard cubic foot (front-half) as represented in the permit application. **(PSD)**
- (8) All noted EPNs are combined and included as "Total Size Compound Base" for Furnace 1, 3, 4, and 5 Manufacturing Lines. "Total Size Compound Base" is limited to 7.58 lb/hr and 34.51 tpy.
- (9) PSD
- (10) Annual emission rates for Hot Air Dryers are grouped together and listed under EPNs E-98A-D, E-31A-F through E-36A-D, and E-45A-D.

* Emission rates are based on and the facilities are limited by the maximum production rates and other representations as listed in the confidential file summary of this permit and by the following maximum operating schedule:

Hrs/day ____ Days/week ____ Weeks/year ____ or Hrs/year 8,760

Dated August 9, 2007