

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit No. 946A

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 *	Source	Air Contaminant	<u>Emission Rates</u>	
<u>Point No. (1)</u>	<u>Name (2)</u>	<u>Name (3)</u> lb/hr		<u>TPY</u>
1/2	Line No. 92 Collector - Stacks	PM	14.00	61.32
		VOC	0.01	0.06
		NO _x	0.37	1.63
		SO ₂	<0.01	0.01
		CO	0.08	0.34
		NH ₃	7.50	32.84
		Formaldehyde	3.00	13.14
		Phenol	2.00	8.76
		Methyl Alcohol	1.80	7.88
		PHMP	19.90	87.16
3/6	Line No. 92/93 Oven High Energy Air Filtration (HEAF) Stack	PM ₁₀	5.50	24.09
		VOC	0.13	0.59
		NO _x	6.72	29.43
		SO ₂	0.03	0.13
		CO	1.68	7.36
		NH ₃	4.67	20.45
		Formaldehyde	2.50	10.95
		Phenol	0.12	0.53
		Methyl Alcohol	0.09	0.39
		PHMP	1.03	4.51
4/5	Line No. 93 Collector - Stacks	PM	14.00	61.32
		VOC	0.01	0.06
		NO _x	0.37	1.63
		SO ₂	<0.01	0.01
		CO	0.08	0.34
		NH ₃	7.50	32.84
		Formaldehyde	3.00	13.14
		Phenol	2.00	8.76

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Methyl Alcohol	1.80	7.88
PHMP	19.90	87.16

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Point No. (1)	Name (2)	Name (3) lb/hr		TPY
9	Line No. 95 Oven HEAF-Stack	PM ₁₀	0.50	2.19
		VOC	0.01	0.06
		NO _x	0.35	1.53
		SO ₂	<0.01	0.01
		CO	0.07	0.32
10	Line No. 95 North Coating Stack	PM	0.25	1.10
		VOC	0.10	0.44
		NH ₃	0.01	0.04
11	Line No. 95 South Coating Stack	PM	0.25	1.10
		VOC	0.10	0.44
		NH ₃	0.01	0.04
12	Line No. 95 Center Coating Stack	PM	0.25	1.10
		VOC	0.10	0.44
		NH ₃	0.01	0.04
15A	Glass Furnaces ESP-Stack	PM ₁₀	10.00	43.80
		VOC	0.24	1.07
		NO _x	12.25	53.66
		SO ₂	0.05	0.23
		CO	3.06	13.41
16	Line No. 91 Collection Wet Scrubber No. 1 - Stack 0.53	PM ₁₀	3.75	16.43
		VOC	0.01	0.02
		NO _x		0.12
		SO ₂	<0.01	<0.01
		CO	0.03	0.11
		NH ₃	3.50	15.33
		Formaldehyde	0.75	3.29
		Phenol	0.75	3.29

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<u>Point No. (1)</u>	<u>Name (2)</u>	<u>Name (3)</u>	<u>lb/hr</u>	<u>TPY</u>
17	Line No. 91	PM ₁₀	3.75	16.43
	Collection Wet	VOC	0.01	0.02
	Scrubber No. 2 - Stack	NO _x		0.12
	0.53			
		SO ₂	<0.01	<0.01
		CO	0.03	0.11
		NH ₃	3.50	15.33
		Formaldehyde	0.75	3.29
		Phenol	0.75	3.29
18	Line No. 91	PM ₁₀	3.75	16.43
	Collection Wet	VOC	0.01	0.02
	Scrubber No. 3 - Stack	NO _x		0.12
	0.53			
		SO ₂	<0.01	<0.01
		CO	0.03	0.11
		NH ₃	3.50	15.33
		Formaldehyde	0.75	3.29
		Phenol	0.75	3.29
19	Line No. 91	PM ₁₀	3.75	16.43
	Collection Wet	VOC	0.01	0.02
	Scrubber No. 4 - Stack	NO _x		0.12
	0.53			
		SO ₂	<0.01	<0.01
		CO	0.03	0.11
		NH ₃	3.50	15.33
		Formaldehyde	0.75	3.29
		Phenol	0.75	3.29
20	Line No. 91	PM ₁₀	3.75	16.43
	Oven Wet	VOC	0.03	0.15
	Scrubber - Stack	NO _x	0.90	3.94
		SO ₂	0.01	0.02

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CO	0.19	0.83
NH ₃	3.50	15.33
Formaldehyde	1.75	7.67
Phenol	1.00	4.38

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Emission *	Source	Air Contaminant	<u>Emission Rates</u>	
<u>Point No. (1)</u>	<u>Name (2)</u>	<u>Name (3)</u>	<u>lb/hr</u>	<u>TPY</u>
21	Baghouse No. 1 - Stack	PM ₁₀	0.34	1.49
		VOC	0.01	0.06
		NO _x	0.33	1.45
		SO ₂	<0.01	0.01
		CO	0.07	0.30
		Boron Oxide	0.40	1.75
22	Baghouse No. 2 - Stack	PM ₁₀	0.06	0.26
23	Baghouse No. 3 - Stack	PM ₁₀	0.03	0.13
24	Baghouse No. 4 - Stack	PM ₁₀	0.03	0.13
25	Baghouse No. 5 - Stack	PM ₁₀	0.03	0.13
26	Baghouse No. 6 - Stack	PM ₁₀	0.03	0.13
27	Baghouse No. 7 - Stack	PM ₁₀	0.03	0.13
28	Baghouse No. 8 - Stack	PM ₁₀	0.03	0.13
29	Baghouse No. 9 - Stack	PM ₁₀	0.03	0.13
30	Line No. 90 Infrared Zone Stack	PM	0.50	2.19
		VOC	0.01	0.06
		NO _x	0.69	3.03
		SO ₂	<0.01	0.01
		CO	0.17	0.76
		NH ₃	0.13	0.57

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Formaldehyde	0.13	0.57
Phenol	0.01	0.06

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Emission *	Source	Air Contaminant	<u>Emission Rates</u>	
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
31	Line No. 90 Oven Zone 1 Stack	PM	0.50	2.19
		VOC	0.01	0.06
		NO _x	0.69	3.03
		SO ₂	<0.01	0.01
		CO	0.17	0.76
		NH ₃	0.13	0.57
		Formaldehyde	0.13	0.57
		Phenol	0.01	0.06
32	Line No. 90 Oven Zone 2 Stack	PM	0.50	2.19
		VOC	0.01	0.06
		NO _x	0.69	3.03
		SO ₂	<0.01	0.01
		CO	0.17	0.76
		NH ₃	0.13	0.57
		Formaldehyde	0.13	0.57
		Phenol	0.01	0.06
33	Line No. 90 Oven Zone 3 Stack	PM	0.50	2.19
		VOC	0.01	0.06
		NO _x	0.69	3.03
		SO ₂	<0.01	0.01
		CO	0.17	0.76
		NH ₃	0.13	0.57
		Formaldehyde	0.13	0.57
		Phenol	0.01	0.06
35	South Trim Waste Re-Feed Baghouse	PM ₁₀	0.03	0.12
36	North Trim Waste Re-Feed Baghouse	PM ₁₀	0.03	0.12
37	Off-Line Trim Waste	PM ₁₀	0.08	0.36

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Re-Feed Baghouse

- (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) PM - particulate matter
PM₁₀ - particulate matter less than 10 microns in diameter
VOC - volatile organic compounds as defined in General Rule 101.1
NO_x - total oxides of nitrogen
SO₂ - sulfur dioxide
CO - carbon monoxide
NH₃ - ammonia
PHMP - Poly(Hydroxymethyl)Phenol

* Emission rates are based on and the facilities are limited by the following maximum hourly production rates for each of the following lines:

Line 92	1,800 lbs/hr
Line 93	1,800 lbs/hr
Line 91	6,000 lbs/hr

* Annual emission rates are based on the following continuous operation schedule:

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

Dated _____