

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 Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u>	
			<u>lb/hr</u>	<u>TPY</u>
1/2/3/4/5	Line Nos. 92 and 93 Collectors and High Energy Air Filtration (HEAF) - Stacks	PM	33.50	146.73
		VOC	5.30	23.21
		NO _x	11.76	51.51
		SO ₂	6.53	28.65
		CO	57.46	251.67
		NH ₃	28.00	122.64
		Formaldehyde	8.50	37.23
		Phenol	4.12	18.05
		Methyl Alcohol	3.69	16.15
15A	Glass Furnaces (1901 and 1902) ESP - Stack	PM ₁₀	9.60	42.05
		VOC	0.24	1.07
		NO _x	14.35	62.85
		SO ₂	6.85	30.00
		CO	2.00	8.76
FHFUG	1901 Forehearth (4)	PM ₁₀	0.25	1.10
		NO _x	1.46	6.40
		SO ₂	TR**	0.05
		CO	1.10	4.80
FMFUG	1901 Forming Area (4)	VOC	4.39	19.20
BFUG	1901 Batch Plant (4)	PM ₁₀	0.06	0.28
MXBIN1	1901 E-Glass Mixing Bin (North)	PM ₁₀	0.014	0.06
MXBIN2	1901 E-Glass Mixing Bin (South)	PM ₁₀	0.014	0.06

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			lb/hr	TPY
16	Line No. 91 Collection Wet Scrubber No. 1 - Stack	PM ₁₀	4.50	16.43
		VOC	2.04	7.45
		NO _x	0.14	0.53
		SO ₂	TR**	<0.01
		CO	6.62	24.18
		NH ₃	4.20	15.33
		Formaldehyde	0.90	3.29
		Phenol	0.90	3.29
17	Line No. 91 Collection Wet Scrubber No. 2 - Stack	PM ₁₀	4.50	16.43
		VOC	2.04	7.45
		NO _x	0.14	0.53
		SO ₂	TR**	0.01
		CO	6.62	24.18
		NH ₃	4.20	15.33
		Formaldehyde	0.90	3.29
		Phenol	0.90	3.29
18	Line No. 91 Collection Wet Scrubber No. 3 - Stack	PM ₁₀	4.50	16.43
		VOC	2.04	7.45
		NO _x	0.14	0.53
		SO ₂	TR**	<0.01
		CO	6.62	24.18
		NH ₃	4.20	15.33
		Formaldehyde	0.90	3.29
		Phenol	0.90	3.29
19	Line No. 91 Collection Wet Scrubber No. 4 - Stack	PM ₁₀	4.50	16.43
		VOC	2.04	7.45
		NO _x	0.14	0.53
		SO ₂	TR**	<0.01
		CO	6.62	24.18
		NH ₃	4.20	15.33
		Formaldehyde	0.90	3.29
		Phenol	0.90	3.29
20	Line No. 91 Oven Wet	PM ₁₀	4.50	16.43
		VOC	1.44	5.26

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			<u>lb/hr</u>	<u>TPY</u>
	Scrubber - Stack	NO _x	1.08	3.94
		SO ₂	TR**	0.02
		CO	10.22	37.32
		NH ₃	4.20	15.33
		Formaldehyde	2.10	7.67
		Phenol	1.20	4.38
21	Baghouse No. 1 - Stack	PM ₁₀	0.34	1.49
		VOC	TR**	0.06
		NO _x	0.33	1.45
		SO ₂	TR**	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	TR**	0.06
		NO _x	0.69	3.03

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			lb/hr	TPY
		SO ₂	TR**	0.01
		CO	0.17	0.76
		NH ₃	0.13	0.57
		Formaldehyde	0.13	0.57
		Phenol	TR**	0.06
31	Line No. 90 Oven Zone 1 Stack	PM	0.50	2.19
		VOC	TR**	0.06
		NO _x	0.69	3.03
		SO ₂	TR**	0.01
		CO	0.17	0.76
		NH ₃	0.13	0.57
		Formaldehyde	0.13	0.57
		Phenol	TR**	0.06
32	Line No. 90 Oven Zone 2 Stack	PM	0.50	2.19
		VOC	TR**	0.06
		NO _x	0.69	3.03
		SO ₂	TR**	0.01
		CO	0.17	0.76
		NH ₃	0.13	0.57
		Formaldehyde	0.13	0.57
		Phenol	TR**	0.06
33	Line No. 90 Oven Zone 3 Stack	PM	0.50	2.19
		VOC	TR**	0.06
		NO _x	0.69	3.03
		SO ₂	TR**	0.01
		CO	0.17	0.76
		NH ₃	0.13	0.57
		Formaldehyde	0.13	0.57
		Phenol	TR**	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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			lb/hr	TPY

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, suspended in the atmosphere, including PM₁₀
PM₁₀ - particulate matter less than or equal to 10 microns in diameter. Where PM is not listed, it shall be assumed that no PM greater than PM₁₀ is equal to PM.
VOC - volatile organic compounds as defined in 30 Texas Administrative Code Section 101.1
NO_x - total oxides of nitrogen
SO₂ - sulfur dioxide
CO - carbon monoxide
NH₃ - ammonia
- (4) Fugitive emissions are an estimate only.

* 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	(Confidential file)
Line 93	(Confidential file)
Line 91	(Confidential file)
E-Glass	(Confidential file)

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

Hrs/day_____ Days/week_____ Weeks/year_____ or Hrs/year 8,760

** TR - trace emissions, ≤0.01 lbs/hr

Dated_____