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)	Emission Rates * lb/hr	TPY
1/2	Line No. 92 Collector - Stacks	PM	14.00	61.32
		VOC	2.05	8.98
		NO_x	2.52	11.04
		SO_2	3.09	13.56
		CO	26.28	115.11
		NH_3	10.00	43.80
		Formaldehyde	3.00	13.14
		Phenol	2.00	8.76
		Methyl Alcohol	1.80	7.88
3/6	Line No. 92/93 Oven High Energy Air Filtration (HEAF) Stack	PM_{10}	5.50	24.09
		VOC	1.20	5.26
		NO_x	6.72	29.43
		SO_2	0.35	1.53
		CO	4.90	21.46
		NH_3	7.00	30.66
		Formaldehyde	2.50	10.95
		Phenol	0.12	0.53
		Methyl Alcohol	0.09	0.39
4/5	Line No. 93 Collector - Stacks	PM	14.00	61.32
		VOC	2.05	8.98
		NO_x	2.52	11.04
		SO_2	3.09	13.56
		CO	26.28	115.11
		NH_3	10.00	43.80
		Formaldehyde	3.00	13.14
		Phenol	2.00	8.76
		Methyl Alcohol	1.80	7.88

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

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates * lb/hr	TPY
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}	0.06	0.014
MXBIN2	1901 E-Glass Mixing Bin (South)	PM_{10}	0.06	0.014
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

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates * lb/hr	TPY
		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 Scrubber - Stack	PM_{10}	4.50	16.43
		VOC	1.44	5.26
		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

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

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates * lb/hr	TPY
		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 Re-Feed Baghouse	PM_{10}	0.08	0.36

(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) PM - particulate matter, suspended in the atmosphere, including PM_{10}
PM_{10} - 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 PM_{10} is equal to PM.
VOC - volatile organic compounds as defined in General Rule 101.1
NO_x - total oxides of nitrogen
SO_2 - sulfur dioxide
CO - carbon monoxide
NH_3 - ammonia
(4) Fugitive emissions are an estimate only.

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

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

* 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_____