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 Rates * Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission lb/hr	Emission TPY
½	Line No. 92 Collector - Stacks	PM	14.00	61.32
		VOC	TR	0.06
		NO_x	0.37	1.63
		SO_2	TR	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	TR	0.06
		NO_x	0.37	1.63
		SO_2	TR	0.01
		CO	0.08	0.34
		NH_3	7.50	32.84
		Formaldehyde	3.00	13.14

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AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates * lb/hr	TPY
		Phenol	2.00	8.76
		Methyl Alcohol	1.80	7.88
		PHMP	19.90	87.16
15A	Glass Furnaces (1901 and 1902) 42.05	PM_{10}		9.60
	ESP-Stack	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) 0.06	PM_{10}		0.014
MXBIN2	1901 E-Glass Mixing Bin (South) 0.06	PM_{10}		0.014
16	Line No. 91	PM_{10}	3.75	16.43
	Collection Wet	VOC	TR	0.02
	Scrubber No. 1 -	NO_x	0.12	0.53
	Stack	SO_2	TR	<0.01
		CO	0.03	0.11
		NH_3	3.50	15.33
		Formaldehyde	0.75	3.29
		Phenol	0.75	3.29

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates * lb/hr	Emission Rates * TPY
17	Line No. 91 Collection Wet Scrubber No. 2 - Stack	PM_{10}	3.75	16.43
		VOC	TR	0.02
		NO_x	0.12	0.53
		SO_2	TR	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 Collection Wet Scrubber No. 3 - Stack	PM_{10}	3.75	16.43
		VOC	TR	0.02
		NO_x	0.12	0.53
		SO_2	TR	<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 Collection Wet Scrubber No. 4 - Stack	PM_{10}	3.75	16.43
		VOC	TR	0.02
		NO_x	0.12	0.53
		SO_2	TR	<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 Oven Wet Scrubber - Stack	PM_{10}	3.75	16.43
		VOC	0.03	0.15
		NO_x	0.90	3.94
		SO_2	TR	0.02
		CO	0.19	0.83
		NH_3	3.50	15.33
		Formaldehyde	1.75	7.67

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates * lb/hr	Emission Rates * TPY
		Phenol	1.00	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	PM	0.50	2.19

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates * lb/hr	TPY
	Zone Stack	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
		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
PM_{10} - 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
SO_2 - sulfur dioxide
CO - carbon monoxide
NH_3 - ammonia
PHMP - poly(hydroxymethyl)phenol
TR - trace emissions, ≤0.01 lbs/hr
(4) Fugitive emissions are an estimate only.

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	1,800 lbs/hr
Line 93	1,800 lbs/hr
Line 91	6,000 lbs/hr
E-Glass	(Confidential file)

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

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

AIR CONTAMINANTS DATA

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

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

Dated_____