

# EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Numbers 946A and PSD-TX-1025

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
1/2/3/4/5	Line Nos. 92 and 93 Collectors and High Energy Air Filtration (HEAF) - Stacks	PM	33.50	146.73
		Total VOC	21.61	94.64
		NO <sub>x</sub>	11.76	51.51
		SO <sub>2</sub>	6.53	28.65
		CO	57.46	251.67
		NH <sub>3</sub>	36.00	157.68
		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 <sub>10</sub>	8.16	35.74
		VOC	0.24	1.07
		NO <sub>x</sub>	14.35	62.85
		SO <sub>2</sub>	6.85	30.00
		CO	2.00	8.76
		HF	0.14	0.61
FHFUG	1901 Forehearth (4)	PM <sub>10</sub>	0.25	1.10
		NO <sub>x</sub>	1.46	6.40
		SO <sub>2</sub>	<0.01	0.05
		CO	1.10	4.80
FHFUG2	1902 Furnace Forehearth (4)	PM <sub>10</sub>	0.25	1.10
		NO <sub>x</sub>	1.46	6.40
		SO <sub>2</sub>	<0.01	0.05
		CO	1.10	4.80
FMFUG	1901 Forming Area (4)	PM <sub>10</sub>	1.44	6.31
		VOC	4.39	19.20
		NH <sub>3</sub>	0.44	1.93

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			lb/hr	TPY
BFUG	1901 Batch Plant (4)	PM <sub>10</sub>	0.06	0.28
MXBIN1	1901 E-Glass Mixing Bin (North)	PM <sub>10</sub>	0.014	0.06
MXBIN2	1901 E-Glass Mixing Bin (South)	PM <sub>10</sub>	0.014	0.06
16	Line No. 91 Collection Wet Scrubber No. 1 - Stack	PM <sub>10</sub>	4.50	16.43
		Total VOC	3.84	14.03
		NO <sub>x</sub>	1.29	5.65
		SO <sub>2</sub>	<0.01	<0.01
		CO	9.15	40.08
		NH <sub>3</sub>	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 <sub>10</sub>	4.50	16.43
		Total VOC	3.84	14.03
		NO <sub>x</sub>	1.29	5.65
		SO <sub>2</sub>	<0.01	<0.01
		CO	9.15	40.08
		NH <sub>3</sub>	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 <sub>10</sub>	4.50	16.43
		Total VOC	3.84	14.03
		NO <sub>x</sub>	1.29	5.65
		SO <sub>2</sub>	<0.01	<0.01
		CO	9.15	40.08
		NH <sub>3</sub>	4.20	15.33
		Formaldehyde	0.90	3.29
		Phenol	0.90	3.29

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY
19	Line No. 91 Collection Wet Scrubber No. 4 - Stack	PM <sub>10</sub>	4.50	16.43
		Total VOC	3.84	14.03
		NO <sub>x</sub>	1.29	5.65
		SO <sub>2</sub>	<0.01	<0.01
		CO	9.15	40.08
		NH <sub>3</sub>	4.20	15.33
		Formaldehyde	0.90	3.29
		Phenol	0.90	3.29
20	Line No. 91 Oven Wet Scrubber - Stack	PM <sub>10</sub>	4.51	19.75
		VOC	7.16	31.36
		NO <sub>x</sub>	3.50	15.33
		SO <sub>2</sub>	<0.01	0.02
		CO	22.28	97.59
		NH <sub>3</sub>	6.69	29.30
		Formaldehyde	2.10	7.67
		Phenol	1.20	4.38
21	Baghouse No. 1 - Stack	Total PM <sub>10</sub>	0.74	3.24
		VOC	<0.01	0.06
		NO <sub>x</sub>	0.33	1.45
		SO <sub>2</sub>	<0.01	0.01
		CO	0.07	0.30
		Boron Oxide	0.40	1.75
22	Baghouse No. 2 - Stack	PM <sub>10</sub>	0.06	0.26
23	Baghouse No. 3 - Stack	PM <sub>10</sub>	0.03	0.13
24	Baghouse No. 4 - Stack	PM <sub>10</sub>	0.03	0.13
25	Baghouse No. 5 - Stack	PM <sub>10</sub>	0.03	0.13
26	Baghouse No. 6 - Stack	PM <sub>10</sub>	0.03	0.13
27	Baghouse No. 7 - Stack	PM <sub>10</sub>	0.03	0.13

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28	Baghouse No. 8 - Stack	PM <sub>10</sub>	0.03	0.13
29	Baghouse No. 9 - Stack	PM <sub>10</sub>	0.03	0.13
35	South Trim Waste Re-Feed Baghouse	PM <sub>10</sub>	0.03	0.12
36	North Trim Waste Re-Feed Baghouse	PM <sub>10</sub>	0.03	0.12
37	Off-Line Trim Waste Re-Feed Baghouse	PM <sub>10</sub>	0.08	0.36
RA901	1901 E-Glass Reclaim Area (4)	PM <sub>10</sub>	0.62	2.72
		VOC	0.45	1.97
		NO <sub>x</sub>	0.10	0.44
		SO <sub>2</sub>	<0.01	0.01
		CO	0.08	0.35
		NH <sub>3</sub>	0.10	0.44
OGMFUG	Offline Grooving Machine (4)	PM <sub>10</sub>	0.14	0.61

- (1) Emission point identification - either specific equipment designation or emission point number from plot plan.

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- (2) Specific point source names. For fugitive sources use area name or fugitive source name.
- (3) PM - particulate matter, suspended in the atmosphere, including PM<sub>10</sub>  
PM<sub>10</sub> - 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<sub>10</sub> is equal to PM.  
VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1  
NO<sub>x</sub> - total oxides of nitrogen  
SO<sub>2</sub> - sulfur dioxide  
CO - carbon monoxide  
NH<sub>3</sub> - ammonia  
HF - hydrogen fluoride
- (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

Dated November 20, 2003