

## EMISSION SOURCES – MAXIMUM ALLOWABLE EMISSION RATES

Permit No. 898

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
01, 02, 03, 04, 05, 06, 07, 08	Railcar Unloading Vents for Sand, Soda Ash, Limestone Salt Cake, and Dolomite.	PM/PM <sub>10</sub>	1.65	7.21
09, 10, 11, 12, 13, 14, 15, 16	Raw Material Silo Vents for Sand, Soda Ash, Limestone, Salt Cake, and Dolomite.	PM/PM <sub>10</sub>	1.65	7.21
17, 25, 34, 35 39, 40, 41, 42 43, 44, 45, 50	Cullet Hood Vents	PM/PM <sub>10</sub>	8.15	35.69
18	Mix House Vent	PM/PM <sub>10</sub>	0.40	1.75
19	Batch Plant Dust Collector	PM/PM <sub>10</sub>	0.69	3.04
20	Rouge/Coal Storage Vent	PM/PM <sub>10</sub>	0.21	0.90
22	Tank No. 1 Stack	PM/PM <sub>10</sub>	71.00	310.98
		VOC	1.18	5.18
		NO <sub>x</sub>	739.00	3236.82
		CO	160.00	700.80
		SO <sub>2</sub>	80.00	350.40
		Cr (7)	0.22	1.00
		Se (7 and 18)	45.00	31.00
		Co (7)	0.01	0.06
		Si (7)	19.00	82.00
		Ni (7)	0.02	0.10
		Ce (7), (9)	9.00	40.00
		Ti (7), (9)	2.00	8.80

23	Tank No. 2 Stack		PM/PM <sub>10</sub>	71.00	310.98
			VOC	1.18	5.18
		NO <sub>x</sub>	739.00	3,237.00	
		CO		160.00	700.00
		SO <sub>2</sub>	80.00	351.00	
FUG-1	Furnace Fugitives (4)		PM/PM <sub>10</sub>	6.40	28.00
			NO <sub>x</sub>	31.00	136.00
		CO	6.70	29.40	
			SO <sub>2</sub>	3.40	15.00
			Trace Metals	0.10	0.44
28	Solarcool Scrubber Stack		PM/PM <sub>10</sub>	4.37	9.57
			Co (7)	0.46	2.00
			SO <sub>2</sub> (11)	See EPN 30 and 31	
			Cr (7)	0.08	0.35
			Fe (7)	0.50	2.20
		C <sub>3</sub> H <sub>8</sub> O		5.74	12.57
29	Solarcool Mix Room Vent		PM/PM <sub>10</sub>	0.60	2.63
30, 31	Line 2 West and East Stacks		SO <sub>2</sub>	23.00	75.00
36, 36A, 37	Process W Line 1 and 2 Stacks		PM/PM <sub>10</sub>	1.22	5.30
			VOC	0.21	0.94
38	Boilers 1, 2, 3 Furnace Stack		PM/PM <sub>10</sub>	0.90	5.84
			VOC	0.35	1.88
			NO <sub>x</sub>	10.76	72.35
			CO	5.27	31.01
		SO <sub>2</sub>	21.11	92.63	
46, 47, 48, 49 51, 52, 52A, 53, 54, 54A	Automatic Packing and Tempering Vacuum Transfer Vents		PM/PM <sub>10</sub>	1.20	5.26

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### AIR

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			<u>lb/hr</u>	<u>TPY</u>
55, 56, 57, 58, 59, 60, 61, 63, and 68	Storage Tank Vents for Petroleum-Derived Materials	VOC	1.42	0.18
FUG-2	Material Storage and Handling (4)	PM		-
	2.64	PM <sub>10</sub>	-	1.13
		SO <sub>2</sub> (11)	See EPN 30 and 31	
77, 78	Tin Bath Vent Stack	PM/PM <sub>10</sub>	0.05	0.21
	Sn		<0.01	<0.01
MSVD	MSVD Vacuum Chamber	VOC	0.11	0.50
TPO	MSVD TPO Process	PM/PM <sub>10</sub>	0.02	0.02
		VOC	0.03	
BUFF	MSVD Buff	PM/PM <sub>10</sub>	<0.01	<0.01

- (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<sub>10</sub>  
PM<sub>10</sub> - particulate matter equal to or less than 10 microns in diameter. Where PM is not listed, it shall be assumed that no particulate

matter greater than 10 microns is emitted.

NO <sub>x</sub>	-	total oxides of nitrogen
CO	-	carbon monoxide
SO <sub>2</sub>	-	sulfur dioxide
VOC	-	volatile organic compounds as defined in 30 Texas Administrative Code 101.1
Cr	-	chromium
Se	-	selenium
Co	-	cobalt
Si	-	amorphous silica
Ni	-	nickel
Ce	-	cerium
Ti	-	titanium
Fe	-	iron
Sn	-	tin
C <sub>3</sub> H <sub>8</sub> O	-	isopropyl alcohol

(4) These emissions are an estimate only.

(17) Selenium emissions of 45 pounds per hour is limited to 200 hours per year. Hourly selenium emissions of 9.0 pounds per hour are authorized for a total of 3,360 hours per year. The selenium emission rate is limited to 7 pounds per hour for the remaining 5,200 hours per year.

Emission rates are based on a maximum daily production of 700 tons of glass for each of the 2 furnaces (1,400 tons total) and a maximum annual production of 511,000 tons of glass for the facility and the facilities are limited by the following maximum operating schedule:

Hrs/day 24 Days/week 7 Weeks/year 52 or Hrs/year 8,760

Dated \_\_\_\_\_