

## EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Number 326B

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. **(3/09)**

### AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u>	
			lb/hr	TPY**
1-DC-1	F and G 1st Loop Dust Collector	CO	0.05	0.21
		NO <sub>x</sub>	0.60	2.52
		PM <sub>10</sub>	0.57	2.38
		VOC	0.01	0.04
1-DC-7	F and G 2nd Loop Dust Collector	CO	0.05	0.21
		NO <sub>x</sub>	0.60	2.52
		PM <sub>10</sub>	0.73	3.07
		VOC	0.01	0.04
1-FN-21	F and G Inside Split Bin Fan	PM <sub>10</sub>	0.03	0.11
1-DC-6	F & G Main Plant Central Vacuum System	PM <sub>10</sub>	0.04	0.18
11-DC-8	P85 Dust Collector	CO	0.03	0.14
		NO <sub>x</sub>	0.40	1.68
		PM <sub>10</sub>	0.53	2.23
		VOC	0.01	0.03
11-DC-21	Spec. Splits Bin Dust Collector	PM <sub>10</sub>	0.04	0.18
11-DC-23	P78 HVHPG Dust Collector	CO	0.07	0.29
		NO <sub>x</sub>	0.80	3.36
		PM <sub>10</sub>	0.86	3.60
		VOC	0.01	0.05
11-FN-37	P78 Storage Bins 16-22 Vent Fan	PM <sub>10</sub>	0.02	0.09
11-TA-77	P85 Scrubber	VOC	0.09	0.16

## 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**
		3C2HTMC	0.01	0.01
		13B2HPD	0.01	0.01
		NaHO	0.04	0.04
		H <sub>2</sub> O <sub>2</sub>	0.01	0.01
21-DC-1	Air Mix I Receiver Dust Collector	PM <sub>10</sub>	0.30	1.26
21-DC-2	Air Mix I Blender Dust Collector	PM <sub>10</sub>	0.01	0.01
21-DC-3	Air Mix I Packer Dust Collector	PM <sub>10</sub>	0.16	0.69
21-DC-4	Air Mix II Receiver Dust Collector	PM <sub>10</sub>	0.17	0.74
21-DC-5	Air Mix I Supersack Receiver Collector	PM <sub>10</sub>	0.02	0.09
21-FN-10	Air Mix II Chemical Feeding Hopper Vent Fan	PM <sub>10</sub>	0.03	0.11
22-DC-1	Bean Cleaning Dust Collector	PM <sub>10</sub>	0.30	1.26
33-BR-1	Steam Boiler Number 1	CO	0.90	3.30
		NO <sub>x</sub>	1.10	3.90
		PM <sub>10</sub>	0.08	0.30
		SO <sub>2</sub>	0.01	0.02
		VOC	0.03	0.13
33-BR-2	Steam Boiler Number 2	CO	0.90	3.30
		NO <sub>x</sub>	1.10	3.90
		PM <sub>10</sub>	0.08	0.30
		SO <sub>2</sub>	0.01	0.02
		VOC	0.03	0.13
35-DC-9	Air Mix III Receiver Dust Collector	PM <sub>10</sub>	0.30	1.26

## 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**
35-DC-10	Air Mix III Blender Dust Collector	PM <sub>10</sub>	0.01	0.01
35-DC-15	Air Mix III Blender Central Vacuum System	PM <sub>10</sub>	0.05	0.23
35-FN-1	Air Mix III Process Storage Bin Vent Fan	PM <sub>10</sub>	0.05	0.22
35-FN-3	Air Mix III Dust Collector Receiver Fan	PM <sub>10</sub>	0.05	0.22
35-FN-4	Air Mix III Feeder Hopper Vent Fan	PM <sub>10</sub>	0.03	0.11
36-DC-3	P80 Dust Collector	CO	0.07	0.29
		NO <sub>x</sub>	0.80	3.36
		PM <sub>10</sub>	1.20	5.04
		VOC	0.01	0.05
36-FN-1	P80 Split Bins Vent Fan	PM <sub>10</sub>	0.05	0.22
36-TA-4	P80 Wet Scrubber Tank	C <sub>3</sub> H <sub>6</sub> O	0.25	1.05
		Methyl Chloride	6.79	7.43
36-DC-7	Pilot Plant Dust Collector	CO	0.02	0.07
		NO <sub>x</sub>	0.20	0.84
		PM <sub>10</sub>	0.12	0.50
BLDG36	Building 36	PM <sub>10</sub>	0.02	0.01
		Sulfuric Acid	0.02	0.09
		VOC	0.98	4.16
11VP1	Reactor System Evacuation	VOC	0.05	0.10

## 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**
PILOT-VP	Pilot Vacuum Pump Vent	VOC	0.09	0.06
H-TT	Drum Product Packout	VOC	0.01	0.02
PAPEFUGTF	Tank Farm and Tank Truck Loading Fugitives (4)	VOC	0.13	0.58
T-110	Product Tank T-110	VOC	0.03	0.04
T-120	Product Tank T-120	VOC	0.03	0.04
T-130	Product Tank T-130	VOC	0.03	0.04
T-107	Solvent Storage Tank	VOC	0.31	0.03
T-116	Washwater Tank	VOC	0.01	0.02
T-117	Bromide Weigh Tank	VOC	0.01	0.01
MIXTK	Dissolution Process Vent	Sulfuric Acid	0.01	0.01
		VOC	0.02	0.02
11-FN-110	P78 Scrubber	VOC	0.01	0.01
T-102	Bromide Weigh Tank	VOC	0.01	0.01
T-103	Dibromomethane Weigh Tank	VOC	0.04	0.05
TMAFUG	TMA Fugitives (4)	VOC	0.01	0.01
MeCIFUG	Methyl Chloride Fugitives (4)	VOC	0.04	0.18
11-DC-100	Specialties I Central Vacuum Sys	PM <sub>10</sub>	0.09	0.38
BLDG37	Drum Loading Product Packout	VOC	0.01	0.02

## 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**
11-TA-23	Sulfuric Acid Storage Tank	Sulfuric Acid	0.01	0.01
11-FN-26	P85/P04 Mix Tanks	PM	0.01	0.01
		NaOH	0.04	0.04
		H <sub>2</sub> O <sub>2</sub>	0.01	0.01
		Acetic Acid	0.01	0.01
		Glyoxal	0.06	0.08
T-104	Tetronic 304-TMP 15EO Storage Tank	VOC	0.01	0.01
1-DC-2	F and G Flexkleen SON Dust Collector	PM <sub>10</sub>	0.32	1.41
1-DC-5	Plant Blender Dust Collector	PM <sub>10</sub>	0.20	0.89
10-DC-1	Jumbo Dust Collector	PM <sub>10</sub>	0.16	0.71
11-DC-3	Derivatives Blender Dust Collector	PM <sub>10</sub>	0.13	0.56
11-FN-7	Derivatives Storage Bins 8-15 Vent Fan	PM <sub>10</sub>	0.27	1.17
19-FN-1	T-Process Dust Collector Fan	PM <sub>10</sub>	0.25	1.07
11-TA-62	Acetic Acid Storage Tank	VOC	0.10	0.43

(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) C<sub>3</sub>H<sub>6</sub>O - propylene oxide  
CO - carbon monoxide

## 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**

NO <sub>x</sub>	-	total oxides of nitrogen		
PM <sub>10</sub>	-	particulate matter (PM) equal to or less than 10 microns in diameter. Where PM is not listed, it shall be assumed that no PM greater than 10 microns is emitted.		
SO <sub>2</sub>	-	sulfur dioxide		
VOC	-	volatile organic compounds as defined in Title 30 Texas Administrative Code §		
101.1				
NaOH	-	sodium hydroxide		
H <sub>2</sub> O <sub>2</sub>	-	hydrogen peroxide		
3C2HTMC	-	3-chloro-2-hydroxypropyl trimethylammonium chloride		
13B2HPD	-	1,3-bis(trimethylammonium)-2-hydroxypropane dichloride		
(4)	Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.			

Total hazardous air pollutant (HAP) emissions from this site are less than 10 tons per year (tpy) for any individual HAP and less than 25 tpy for total HAPs.

\* Emission rates are based on and the facilities are limited by the following maximum operating schedule:

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

\*\* Compliance with annual emission limits is based on a rolling 12-month period.

Dated April 1, 2009