

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.

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 _x	0.60	2.52
		PM ₁₀	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 _x	0.60	2.52
		PM ₁₀	0.73	3.07
		VOC	0.01	0.04
1-FN-21	F and G Inside Split Bin Fan	PM ₁₀	0.03	0.11
1-DC-6	F and G Main Plant Central Vacuum System	PM ₁₀	0.04	0.18
11-DC-8	P85 Dust Collector	CO	0.03	0.14
		NO _x	0.40	1.68
		PM ₁₀	0.53	2.23
		VOC	0.01	0.03
11-DC-21	Spec. Splits Bin Dust Collector	PM ₁₀	0.04	0.18
11-DC-23	P78 HVHPG Dust Collector	CO	0.07	0.29
		NO _x	0.80	3.36
		PM ₁₀	0.86	3.60
		VOC	0.01	0.05
11-FN-37	P78 Storage Bins 16-22 Vent Fan	PM ₁₀	0.02	0.09

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			lb/hr	TPY**
11-TA-78	P85 Scrubber	VOC	0.01	0.06
21-DC-1	Air Mix I Receiver Dust Collector	PM ₁₀	0.30	1.26
21-DC-2	Air Mix I Blender Dust Collector	PM ₁₀	0.01	0.01
21-DC-3	Air Mix I Packer Dust Collector	PM ₁₀	0.16	0.69
21-DC-4	Air Mix II Receiver Dust Collector	PM ₁₀	0.17	0.74
21-DC-5	Air Mix I Supersack Receiver Collector	PM ₁₀	0.02	0.09
21-FN-10	Air Mix II Chemical Feeding Hopper Vent Fan	PM ₁₀	0.03	0.11
22-DC-1	Bean Cleaning Dust Collector	PM ₁₀	0.30	1.26
33-BR-1	Steam Boiler No. 1	CO	0.90	3.30
		NO _x	1.10	3.90
		PM ₁₀	0.08	0.30
		SO ₂	0.01	0.02
		VOC	0.03	0.13
33-BR-2	Steam Boiler No. 2	CO	0.90	3.30
		NO _x	1.10	3.90
		PM ₁₀	0.08	0.30
		SO ₂	0.01	0.02
		VOC	0.03	0.13
35-DC-9	Air Mix III Receiver Dust Collector	PM ₁₀	0.30	1.26
35-DC-10	Air Mix III Blender Dust Collector	PM ₁₀	0.01	0.01
35-DC-15	Air Mix III Blender Central Vacuum System	PM ₁₀	0.05	0.23

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

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u>	
			lb/hr	TPY**
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	VOC Sulfuric Acid	0.01 0.02	0.01
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
MeClFUG	Methyl Chloride Fugitives (4)	VOC	0.04	0.18
11-DC-100	Specialties I Central Vacuum Sys	PM ₁₀	0.09	0.38
BLDG37	Drum Loading Product Packout	VOC	0.01	0.02
11-TA-23	Sulfuric Acid Storage Tank	Sulfuric Acid	0.01	0.01
T-104	Tetronic 304-TMP 15EO Storage Tank	VOC	0.01	0.01
1-DC-2	F and G Flexkleen SON	PM ₁₀	0.32	1.41

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			lb/hr	TPY**
	Dust Collector			
1-DC-5	Plant Blender Dust Collector	PM ₁₀	0.20	0.89
10-DC-1	Jumbo Dust Collector	PM ₁₀	0.16	0.71
11-DC-3	Derivatives Blender Dust Collector	PM ₁₀	0.13	0.56
11-FN-7	Derivatives Storage Bins 8-15 Vent Fan	PM ₁₀	0.27	1.17
19-FN-1	T-Process Dust Collector Fan	PM ₁₀	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) C₃H₆O - propylene oxide
CO - carbon monoxide
NO_x - total oxides of nitrogen
PM₁₀ - 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.
SO₂ - sulfur dioxide
VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1.
- (4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

* 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 November 2, 2004