

# EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Number 5168

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, sources, and related activities. 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	
			lbs/hour	TPY (4)
VFB-BGH	Vibrating Fluidized Bed Dryer Baghouse Stack	VOC(a)	3.52	15.42
		VOC(b)	0.04	0.19
		NO <sub>x</sub>	0.78	3.44
		SO <sub>2</sub>	<0.01	0.02
		PM <sub>10</sub>	0.06	0.26
		PM <sub>2.5</sub>	0.06	0.26
		CO	0.66	2.89
3	ACM Mill Baghouse Stack	PM <sub>10</sub>	0.69	2.16
		PM <sub>2.5</sub>	0.02	0.06
7	Impact Mill Baghouse Stack	PM <sub>10</sub>	0.91	2.85
		PM <sub>2.5</sub>	0.03	0.09
8	Flash Dryer Stack	VOC(a)	2.66	11.63
		VOC(b)	0.03	0.13
		NO <sub>x</sub>	0.56	2.45
		SO <sub>2</sub>	<0.01	0.01
		PM <sub>10</sub>	0.04	0.19
		PM <sub>2.5</sub>	0.04	0.19
		CO	0.47	2.06

## EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
BLR10	EPCON Boiler/Thermal Oxidizer No. 1 Stack	VOC(a)	0.01	0.43
		VOC(b)	0.02	0.10
		NO <sub>x</sub>	0.41	1.80
		SO <sub>2</sub>	<0.01	<0.01
		PM <sub>10</sub>	0.03	0.14
		PM <sub>2.5</sub>	0.03	0.14
		CO	0.35	1.51
FUG	Equipment Leak Fugitives (5)	VOC(a)	1.46	6.41
ROOF1	Roof Vent No. 1(5)	VOC(a)	0.11	0.50
ROOF2	Roof Vent No. 2(5)	VOC(a)	0.11	0.50
ROOF3	Roof Vent No. 3(5)	VOC(a)	0.11	0.50
P6	Wastewater Pond No. 6 (5)	VOC(a)	1.74	7.62
TK2	Amine Storage Tank No. 2(5)	VOC(a)	4.04	0.35
TK3	Amine Storage Tank No. 3(5)	VOC(a)	4.04	0.35
TK4	Amine Storage Tank No. 4(5)	VOC(a)	4.04	0.35
TK5	Amine Storage Tank No. 5(5)	VOC(a)	4.04	0.35

## EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

TK6	Amine Storage Tank No. 6(5)	VOC(a)	4.04	0.35
RBGR	Organo Rebagger Baghouse Stack	PM <sub>10</sub>	0.69	2.16
		PM <sub>2.5</sub>	0.04	0.13
BLR11	Boiler 11/Thermal Oxidizer No. 2 Stack	VOC(a)	0.24	1.05
		VOC(b)	0.06	0.28
		NO <sub>x</sub>	1.18	5.15
		SO <sub>2</sub>	0.01	0.03
		PM <sub>10</sub>	0.09	0.39
		PM <sub>2.5</sub>	0.09	0.39
		CO	0.99	4.33
DM12-C	Product Silo/Raymond Mills Baghouse Stack	PM <sub>10</sub>	1.84	5.75
		PM <sub>2.5</sub>	0.01	0.01
FBDRYER	Special Products Unit Fluid Bed Dryer Stack	VOC(a)	0.37	1.64
		VOC(b)	0.01	0.04
		NO <sub>x</sub>	0.16	0.69
		SO <sub>2</sub>	<0.01	<0.01
		PM <sub>10</sub>	0.01	0.05
		PM <sub>2.5</sub>	0.01	0.05
		CO	0.13	0.58
BAGGER	Special Products Unit Bagging Machine Baghouse Stack	PM <sub>10</sub>	0.20	0.30
		PM <sub>2.5</sub>	0.01	0.01

## EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

BLR12	Thermal Oxidizer No. 3 Stack	VOC(a)	0.10	0.45
		VOC(b)	0.01	0.06
		NO <sub>x</sub>	0.26	1.16
		SO <sub>2</sub>	<0.01	0.01
		PM <sub>10</sub>	0.02	0.09
		PM <sub>2.5</sub>	0.02	0.09
		CO	0.22	0.97
DC 1	Blunger Tanks Baghouse Stack	PM <sub>10</sub>	0.22	0.48
		PM <sub>2.5</sub>	0.01	0.01
DC 2	Pulverizer Baghouse Stack	PM <sub>10</sub>	0.22	0.48
		PM <sub>2.5</sub>	0.01	0.01
DC 3	Weigh Hopper and Marion Mixer Baghouse Stack	PM <sub>10</sub>	0.22	0.48
		PM <sub>2.5</sub>	0.01	0.01
DC 4	Bagger and Bag Hopper Baghouse w/In-line Heater	VOC(b)	0.01	0.02
		NO <sub>x</sub>	0.15	0.42
		SO <sub>2</sub>	<0.01	<0.01
		PM <sub>10</sub>	0.22	0.48
		PM <sub>2.5</sub>	0.01	0.01
		CO	0.12	0.35
DC 5	Dry Process-Mill Baghouse Stack	PM <sub>10</sub>	0.71	4.40
		PM <sub>2.5</sub>	0.04	0.13

## EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

DC 6	Pulverizer Mill Baghouse Stack	PM <sub>10</sub>	0.22	0.48
		PM <sub>2.5</sub>	0.01	0.01
DC 7	Dry Process No. 3 Baghouse Stack	PM <sub>10</sub>	0.15	0.65
		PM <sub>2.5</sub>	0.02	0.11
BLR 13	Thermal Oxidizer No. 4 Stack	VOC(a)	0.17	0.74
		VOC(b)	0.01	0.06
		NO <sub>x</sub>	0.26	1.16
		SO <sub>2</sub>	<0.01	0.01
		PM <sub>10</sub>	0.02	0.09
		PM <sub>2.5</sub>	0.02	0.09
		CO	0.22	0.97
BLR 2	Cleaver Brooks Boiler Stack (Serial No. L-63685)	VOC(b)	0.05	0.13
		NO <sub>x</sub>	0.82	2.36
		SO <sub>2</sub>	<0.01	0.01
		PM <sub>10</sub>	0.06	0.18
		PM <sub>2.5</sub>	0.06	0.18
		CO	0.69	1.98
BLR 3	Cleaver Brooks Boiler Stack (Serial No. 8422)	VOC(b)	0.07	0.20
		NO <sub>x</sub>	1.27	3.65
		SO <sub>2</sub>	0.01	0.02
		PM <sub>10</sub>	0.10	0.28
		PM <sub>2.5</sub>	0.10	0.28
		CO	1.07	3.06
DM1-C	Bulk Product Silo No.3 Baghouse Stack	PM <sub>10</sub>	0.92	2.88
		PM <sub>2.5</sub>	<0.01	<0.01

## EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

DM1-D	Bulk Product Silo No. 4 Baghouse Stack	PM <sub>10</sub>	0.92	2.88
		PM <sub>2.5</sub>	<0.01	<0.01
DM13	Feed Silo Baghouse Stack	PM <sub>10</sub>	1.61	5.06
		PM <sub>2.5</sub>	0.01	0.01
DM14	Dry Process No. 3 Feed Silo Baghouse Stack	PM <sub>10</sub>	<0.01	<0.01
		PM <sub>2.5</sub>	<0.01	<0.01
RX1	Reaction Tank No. 1	VOC(a)	0.03	0.14
RX2	Reaction Tank No. 2	VOC(a)	0.03	0.14

- (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) VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
  - VOC(a) - volatile organic compounds from Ethanol or Isopropyl Alcohol (IPA)
  - VOC(b) - volatile organic compounds from combustion
  - NO<sub>x</sub> - total oxides of nitrogen
  - SO<sub>2</sub> - sulfur dioxide
  - PM - total particulate matter, suspended in the atmosphere, including PM<sub>10</sub> and PM<sub>2.5</sub>, as represented
  - PM<sub>10</sub> - total particulate matter equal to or less than 10 microns in diameter, including PM<sub>2.5</sub>, as represented
  - PM<sub>2.5</sub> - particulate matter equal to or less than 2.5 microns in diameter
  - CO - carbon monoxide
- (4) Compliance with annual emission limits (tons per year) is based on a 12 month rolling period.
- (5) Emission rate is an estimate and is enforceable through compliance with the applicable special condition(s) and permit application representations.

Date: \_\_\_\_\_