

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit No. 2482B

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
CBBD	Process Blowdown	C ₂ H ₄	3.53	1.29
		C ₄ H ₁₀	10.58	3.86
CBSILOS	Polyethylene Powder Pellet Losses	VOC	1.65	5.02
EB-1402	Flare Stack	CO	777.67	36.56
		NO _x	107.67	5.06
		SO ₂	0.05	0.22
		VOC	2021.65	79.30
EC-402-1	Fluid Bed Dryer Vent 1	C ₂ H ₄	5.21	22.82
		C ₄ H ₁₀	32.39	141.87
		PM	1.67	7.31
		PM ₁₀	0.39	1.71
EC-402-2	Fluid Bed Dryer Vent 2	C ₂ H ₄	5.32	23.30
		C ₄ H ₁₀	33.07	144.85
		PM	1.67	7.31
		PM ₁₀	0.39	1.71
EC-502-1	Spin Dryer Exhaust Blower 1	PM ₁₀	<0.01	0.02
EC-502-2	Spin Dryer Exhaust Blower 2	PM ₁₀	<0.01	0.02
ED-404-1	Recycle Water Separator	C ₄ H ₁₀	0.08	0.34

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Vent 1

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			lb/hr	TPY
ED-404-2	Recycle Water Separator Vent 2	C ₄ H ₁₀	0.08	0.34
ED-2201	Gasoline Storage Tank	VOC	29.60	0.10
ED-2202	Diesel Storage Tank	VOC	0.11	<0.01
EE-1001	Cooling Tower (4) (5)	VOC	4.32	15.77
		VOC	0.50	1.84
EF-601-611	Pellet Silo Vents	PM	3.60	12.20
		PM ₁₀	0.68	2.32
EF-701	Cyclohexane Storage Tank	VOC	2.65	0.55
EF-801-A	Catalyst Activator (7,300 hours per year)	CO	0.44	1.59
		NO _x	0.52	1.90
		PM ₁₀	0.04	0.14
		SO ₂	0.31	1.14
		VOC	0.03	0.10
EF-801-BR	Catalyst Activator (7,300 hours per year)	CO	0.44	1.59
		NO _x	0.52	1.90
		PM ₁₀	0.04	0.14
		SO ₂	0.31	1.14
		VOC	0.03	0.10
EM-406-1	Powder Silo Bagfilter Vent 1	PM	0.44	1.30
		PM ₁₀	0.11	0.31
EM-406-2	Powder Silo Bagfilter	PM	0.44	1.30

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Vent 2	PM ₁₀	0.11	0.31
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Emission * Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lb/hr	TPY
EM-406-S	Powder Silo Bagfilter Vent S	PM	0.44	1.30
		PM ₁₀	0.11	0.31
EM-501-1	Mixer Feed Hopper Filter 1	PM	0.80	1.94
		PM ₁₀	0.19	0.45
EM-501-2	Mixer Feed Hopper Filter 2	PM	0.80	1.94
		PM ₁₀	0.19	0.45
EM-613-A	Scalperator Feed Cyclone Vent A	PM	7.30	13.96
		PM ₁₀	1.71	3.27
EM-613-B	Scalperator Feed Cyclone Vent B	PM	7.30	13.96
		PM ₁₀	1.71	3.27
EM-614-A	Scalperator Fines Cyclone Vent A	PM	0.21	0.90
		PM ₁₀	0.05	0.21
EM-614-B	Scalperator Fines Cyclone Vent B	PM	0.21	0.90
		PM ₁₀	0.05	0.21
EM-802	Activator Bagfilter Vent	C ₂ H ₄	2.93	0.57
		Propylene	20.69	2.81
		Methanol	9.71	4.11
		Ethanol	0.21	0.07
		Isopropanol	3.99	1.73
		Benzene	0.10	0.03
		Toluene	0.05	0.01
		Xylene	0.02	<0.01
		Acetone	5.55	3.18

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PM	0.04	0.06
PM ₁₀	0.04	0.06

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DATA			AIR CONTAMINANTS	
Emission * Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates</u>	
			<u>lb/hr</u>	<u>TPY</u>
EM-803-A	Catalyst Charge Ejector Vent A	PM PM ₁₀	0.08 0.06	<0.01 <0.01
EM-803-B	Catalyst Charge Ejector Filter B	PM PM ₁₀	0.08 0.06	<0.01 <0.01
EP-601-624	Pellet Silo Rotary Feeder Vents	PM PM ₁₀	0.05 0.02	0.21 0.05
EM-1501	Unit Separator (4)	C ₄ H ₁₀	0.27	1.16
CBFUG	Process Fugitives (4)	C ₂ H ₄ C ₄ H ₁₀	9.61 15.63	42.08 68.46
CBCATFUG	Fugitives (4)	VOC	0.17	0.75
BL-010-1	Additive Loading Blower	PM ₁₀	<0.01	<0.01
BL-010-2	Additive Loading Blower	PM ₁₀	<0.01	<0.01
BL-009-1	Additive Loading Blower	PM ₁₀	<0.01	<0.01
BL-009-2	Additive Loading Blower	PM ₁₀	<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) CO - carbon monoxide

C₂H₄ - ethylene

C₄H₁₀ - isobutane

NO_x - total oxides of nitrogen

PM - particulate matter

PM₁₀ - particulate matter less than 10 microns in diameter

SO₂ - sulfur dioxide

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VOC - volatile organic compounds as defined in 30 Texas Administrative Code Section 101.1

- (4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.
- (5) The cooling tower shall comply with General Condition No. 9.

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

Hrs/day_____Days/week_____Weeks/year_____or Hrs/year 8,760

Dated _____