

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	2.53	6.76
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	2.90	7.03
		PM ₁₀	0.68	1.65
EF-701	Cyclohexane Storage Tank	VOC	2.65	0.55
EF-801-A	Catalyst Activator (5,840 hours per year)	CO	0.11	0.29
		NO _x	0.53	1.37
		PM ₁₀	0.02	0.06
		SO ₂	0.31	1.23
		VOC	0.04	0.10
EF-801-B	Catalyst Activator (5,840 hours per year)	CO	0.11	0.29
		NO _x	0.53	1.37
		PM ₁₀	0.02	0.06
		SO ₂	0.31	1.23
		VOC	0.04	0.10
EF-801-BR	Catalyst Activator	CO	0.11	0.29
		NO _x	0.53	1.37
		PM ₁₀	0.03	0.06

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		SO ₂	0.31	1.23
		VOC	0.04	0.10
EM-406-1	Powder Silo Bagfilter	PM	0.44	1.30
	Vent 1	PM ₁₀	0.11	0.31

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Emission *	Source	Air Contaminant	<u>Emission Rates</u>	
<u>Point No. (1)</u>	<u>Name (2)</u>	<u>Name (3)</u>	<u>lb/hr</u>	<u>TPY</u>
EM-406-2	Powder Silo Bagfilter	PM	0.44	1.30
	Vent 2	PM ₁₀	0.11	0.31
EM-406-S	Powder Silo Bagfilter	PM	0.44	1.30
	Vent S	PM ₁₀	0.11	0.31
EM-501-1	Mixer Feed Hopper	PM	0.80	1.94
	Filter 1	PM ₁₀	0.19	0.45
EM-501-2	Mixer Feed Hopper	PM	0.80	1.94
	Filter 2	PM ₁₀	0.19	0.45
EM-613-A	Scalperator Feed Cyclone		PM	7.30
	13.96			
	Vent A	PM ₁₀	1.71	3.27
EM-613-B	Scalperator Feed Cyclone		PM	7.30
	13.96			
	Vent B	PM ₁₀	1.71	3.27
EM-614-A	Scalperator Fines Cyclone		PM	0.21
	0.90			
	Vent A	PM ₁₀ 0.05	0.21	
EM-614-B	Scalperator Fines Cyclone		PM	0.21
	0.90			
	Vent B	PM ₁₀	0.05	0.21

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EM-802	Activator Bagfilter Vent	C ₂ H ₄	2.93	0.44
		Propylene	20.69	2.24
		Methanol	9.71	3.28
		Ethanol	0.21	0.05
		Isopropanol	3.99	1.38
		Acetone	5.55	2.54
		PM	0.04	0.07
		PM ₁₀	0.04	0.07
EM-803-A	Catalyst Charge Ejector Vent A	PM	0.06	<0.01
		PM ₁₀	0.02	<0.01

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Point No. (1)	Name (2)	Name (3)	<u>lb/hr</u>	<u>TPY</u>
EM-803-B	Catalyst Charge Ejector Filter B	PM	0.06	<0.01
		PM ₁₀	0.02	<0.01
EP-601-624	Pellet Silo Rotary Feeder Vents	PM	0.05	0.21
		PM ₁₀	0.02	0.05
EM-1501	Unit Separator (4)	C ₄ H ₁₀	0.27	1.16
CBFUG	Process Fugitives (4)	C ₂ H ₄	9.61	42.08
		C ₄ H ₁₀	15.63	68.46
CBCATFUG	Fugitives (4)	VOC	0.17	0.75

(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

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PM₁₀ - particulate matter less than 10 microns in diameter

SO₂ - sulfur dioxide

VOC - volatile organic compounds as defined in General Rule 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/year8,760

Dated _____