Emission Sources - Maximum Allowable Emission Rates

Permit Number 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, 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)
CBBD	Process Blowdown	VOC	11.80	4.60
CBSILOS	Polyethylene Pellet Losses	VOC	2.80	5.02
EB-1402	Flare Emissions for Routine Operations	CO	105.18	47.15
		NO_x	17.06	8.15
		SO_2	0.05	0.21
		VOC	252.71	80.21
EB-1402	Flare Emissions for Maintenance, Startup and Shutdown (MSS) Activities	CO	681.77	27.45
		NO_x	96.71	5.41
		SO_2	0.04	0.01
		VOC	1772.42	59.73
EC-402-1	Fluid Bed Dryer Vent 1 (MSS) (6)	VOC	37.61	4.51
		PM	2.05	0.25
		PM_{10}	0.31	0.04
		$PM_{2.5}$	0.10	0.01
EC-402-2	Fluid Bed Dryer Vent 2 (MSS) (6)	VOC	38.31	4.60
		PM	2.09	0.25
		PM_{10}	0.31	0.04
		$PM_{2.5}$	0.10	0.01
ED-404-1	Recycle Water Separator 1	VOC	0.08	0.34
ED-404-2	Recycle Water Separator 2	VOC	0.08	0.34
ED-2202	Diesel Fuel Storage Tank	VOC	0.11	0.01

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CBFUG	Process Fugitives (5)	VOC	12.24	53.62
RTO FUG	RTO Fugitives (7)	VOC	0.27	1.17
EM-1501	Unit Separator	VOC	0.30	1.31
EH-414-1	Regenerative Thermal Oxidizer (RTO) 1 (6)	VOC	1.67	7.29
		CO	0.39	1.69
		NO_x	0.23	1.00
		SO_2	0.10	0.42
		PM	0.03	0.15
		PM_{10}	0.03	0.15
		$PM_{2.5}$	0.03	0.15
EH-414-2	Regenerative Thermal Oxidizer (RTO) 2 (6)	VOC	1.67	7.29
		CO	0.39	1.69
		NO_x	0.23	1.00
		SO_2	0.10	0.42
		PM	0.03	0.15
		PM_{10}	0.03	0.15
		$PM_{2.5}$	0.03	0.15
EC-502-1	Pellet Spin Dryer 1	PM	0.02	0.04
		PM_{10}	0.01	0.02
		$PM_{2.5}$	0.01	0.02
EC-502-2	Pellet Spin Dryer 2	PM	0.02	0.04
		PM_{10}	0.01	0.02
		$PM_{2.5}$	0.01	0.02
EE-1001	Cooling Tower	VOC	0.50	1.84
		PM	0.28	1.14

Emission Sources - Maximum Allowable Emission Rates

		PM_{10}	0.14	0.57
		$PM_{2.5}$	0.03	0.12
EF-601-611	Pellet Silo Vents	PM	3.50	15.32
		PM_{10}	0.56	2.45
		$PM_{2.5}$	0.56	2.45
EF-801-A	Catalyst Activator	CO	0.55	2.39
		NO_x	0.66	2.85
		PM	0.10	0.44
		PM_{10}	0.05	0.22
		$PM_{2.5}$	0.05	0.22
		SO_2	0.09	0.41
		VOC	0.04	0.16
EF-801-BR	Catalyst Activator	CO	0.51	1.86
		NO_x	0.61	2.23
		PM	0.10	0.34
		PM_{10}	0.05	0.17
		$PM_{2.5}$	0.05	0.17
		SO_2	0.34	1.28
		VOC	0.03	0.12
EM-406-1	Powder Silo Bag Filter - Line 1	PM	0.54	1.57
		PM_{10}	0.11	0.31
		$PM_{2.5}$	0.11	0.31
EM-406-2	Powder Silo Bag Filter - Line 2	PM	0.54	1.57

Emission Sources - Maximum Allowable Emission Rates

		PM_{10}	0.11	0.31
		$PM_{2.5}$	0.11	0.31
EM-406-S	Powder Silo Bag Filter - Line S	PM	0.54	1.57
		PM_{10}	0.11	0.31
		$PM_{2.5}$	0.11	0.31
EM-501-1	Extruder Feed Hopper 1	PM	0.94	2.27
		PM_{10}	0.19	0.45
		$PM_{2.5}$	0.19	0.45
EM-501-2	Extruder Feed Hopper 2	PM	0.94	2.27
		PM_{10}	0.19	0.45
		$PM_{2.5}$	0.19	0.45
EM-613-A	Scalperator Feed Cyclone Vent A	PM	9.01	17.23
		PM_{10}	1.71	3.27
		$PM_{2.5}$	1.71	3.27
EM-613-B	Scalperator Feed Cyclone Vent B	PM	9.01	17.23
		PM_{10}	1.71	3.27
		$PM_{2.5}$	1.71	3.27
EM-614-A	Scalperator Fines Cyclone Vent A	PM	0.25	1.11
		PM_{10}	0.05	0.21
		$PM_{2.5}$	0.05	0.21
EM-614-B	Scalperator Fines Cyclone Vent B	PM	0.25	1.11
		PM_{10}	0.05	0.21
		$PM_{2.5}$	0.05	0.21
EM-802	Catalyst Activator Bag Filter Vent	VOC	33.00	7.81
		Acetone	0.83	0.17
		NOx	3.06	0.75

Emission Sources - Maximum Allowable Emission Rates

		PM	0.14	0.28
		PM_{10}	0.07	0.14
		$PM_{2.5}$	0.07	0.14
EM-803-A	Catalyst Charge Ejector	PM	0.02	0.02
		PM_{10}	0.01	0.01
		$PM_{2.5}$	0.01	0.01
EM-803-B	Catalyst Charge Ejector	PM	0.12	0.02
		PM_{10}	0.06	0.01
		$PM_{2.5}$	0.06	0.01
EP-601-624	Pellet Silo Rotary Feeder Vents	PM	0.07	0.27
		PM_{10}	0.01	0.05
		$PM_{2.5}$	0.01	0.05
BL-010-1	Additive Loading Blower	PM	0.02	0.02
		PM_{10}	0.01	0.01
		$PM_{2.5}$	0.01	0.01
BL-010-2	Additive Loading Blower	PM	0.02	0.02
		PM_{10}	0.01	0.01
		$PM_{2.5}$	0.01	0.01
BL-009-1	Extruder Feed Chute	PM	0.07	0.15
		PM_{10}	0.05	0.12
		$PM_{2.5}$	0.02	0.03
BL-009-2	Extruder Feed Chute	PM	0.07	0.15
		PM_{10}	0.05	0.12
		$PM_{2.5}$	0.02	0.03
POWLOAD	Powder Loading (Trucks)	PM	0.11	0.50
		PM_{10}	0.02	0.10

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		$PM_{2.5}$	0.02	0.10
POWLOADRC	Powder Loading (Railcars)	PM	0.32	1.40
		PM_{10}	0.16	0.70
		$PM_{2.5}$	0.16	0.70

(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
NO_x - total oxides of nitrogen
PM - total particulate matter, suspended in the atmosphere, including PM_{10} and $PM_{2.5}$
PM_{10} - particulate matter equal to or less than 10 microns in diameter, including $PM_{2.5}$
$PM_{2.5}$ - particulate matter equal to or less than 2.5 microns in diameter
SO_2 - sulfur dioxide
VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
(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.
(6) The authorized emissions have been used in the issuance of Emission Reduction Credits and cannot be increased during the service life of the facility. (EBT Project 411371 and NSR Project 290962)
(7) The authorized emissions from the addition of 306 components associated with the installation of the RTOs (EPNs EH-414-1 and EH414-2) have been used in the issuance of Emission Reduction Credits and cannot be increased during the service life of the RTOs (EPNs EH-414-1 and EH-414-2). (EBT Project 411371 and NSR Project 290962)

Date: April 25, 2019