Emission Sources - Maximum Allowable Emission Rates

Permit Number 138547

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 (6)	
			lbs/hour	TPY (4)
08.260F	Lint Neutralization 1 (Ag-lime) Common Bin Vent Stack	PM	0.06	0.10
		PM_{10}	0.06	0.10
		$PM_{2.5}$	0.06	0.10
08.261F	Lint Neutralization 2 (Ag-lime) Common Bin Vent Stack	PM	0.06	0.10
		PM_{10}	0.06	0.10
		$PM_{2.5}$	0.06	0.10
08.262F	Lint Neutralization 3 (Ag-lime) Common Bin Vent Stack	PM	0.06	0.10
		PM_{10}	0.06	0.10
		$PM_{2.5}$	0.06	0.10
40.900F	Sodium Bicarbonate Process Common Dust Collector Stack	PM	0.04	0.06
		PM_{10}	0.04	0.06
		$PM_{2.5}$	0.04	0.06
41.900F	FS-Fluid Bed Dryer - Line 1A Cyclone Stack	PM	1.24	1.87
		PM_{10}	1.24	1.87
		$PM_{2.5}$	1.24	1.87
		CO	0.33	0.49
		NO_x	0.39	0.59
		SO_2	<0.01	<0.01
		VOC	0.02	0.03
		H_2SO_4	0.04	0.06
41.905F	FS-Fluid Bed Dryer - Line 1B Cyclone Stack	PM	1.24	1.87
		PM_{10}	1.24	1.87

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		$PM_{2.5}$	1.24	1.87
41.905F	FS-Fluid Bed Dryer - Line 1B Cyclone Stack	CO	0.33	0.49
		NO_x	0.39	0.59
		SO_2	<0.01	<0.01
		VOC	0.02	0.03
		H_2SO_4	0.04	0.06
41.910F	FS-Fluid Bed Dryer - Line 1C Cyclone Stack	PM	1.24	1.87
		PM_{10}	1.24	1.87
		$PM_{2.5}$	1.24	1.87
		CO	0.33	0.49
		NO_x	0.39	0.59
		SO_2	<0.01	<0.01
		VOC	0.02	0.03
		H_2SO_4	0.04	0.06
41.915F	FS-Fluid Bed Dryer - Line 1D Cyclone Stack	PM	1.24	1.87
		PM_{10}	1.24	1.87
		$PM_{2.5}$	1.24	1.87
		CO	0.33	0.49
		NO_x	0.39	0.59
		SO_2	<0.01	<0.01
		VOC	0.02	0.03
		H_2SO_4	0.04	0.06
41.930F	Buffing - Line 1 Dust Collector Stack	PM	0.66	0.99
		PM_{10}	0.66	0.99
		$PM_{2.5}$	0.66	0.99
		CO	0.41	0.62
		NO_x	0.49	0.74
		SO_2	<0.01	<0.01
41.930F	Buffing - Line 1 Dust	VOC	0.03	0.04

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	Collector Stack			
42.900F	FS-Fluid Bed Dryer - Line 2A Cyclone Stack	PM	1.24	1.87
		PM_{10}	1.24	1.87
		$PM_{2.5}$	1.24	1.87
		CO	0.33	0.49
		NO_x	0.39	0.59
		SO_2	<0.01	<0.01
		VOC	0.02	0.03
		H_2SO_4	0.04	0.06
42.905F	FS-Fluid Bed Dryer Line 2B Cyclone Stack	PM	1.24	1.87
		PM_{10}	1.24	1.87
		$PM_{2.5}$	1.24	1.87
		CO	0.33	0.49
		NO_x	0.39	0.59
		SO_2	<0.01	<0.01
		VOC	0.02	0.03
		H_2SO_4	0.04	0.06
42.910F	FS-Fluid Bed Dryer - Line 2C Cyclone Stack	PM	1.24	1.87
		PM_{10}	1.24	1.87
		$PM_{2.5}$	1.24	1.87
		CO	0.33	0.49
		NO_x	0.39	0.59
		SO_2	<0.01	<0.01
		VOC	0.02	0.03
		H_2SO_4	0.04	0.06
42.915F	FS-Fluid Bed Dryer - Line 2D Cyclone Stack	PM	1.24	1.87
		PM_{10}	1.24	1.87
		$PM_{2.5}$	1.24	1.87

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		CO	0.33	0.49
		NO_x	0.39	0.59
		SO_2	<0.01	<0.01
		VOC	0.02	0.03
		H_2SO_4	0.04	0.06
42.930F	Buffing - Line 2 Dust Collector Stack	PM	0.66	0.99
		PM_{10}	0.66	0.99
		$PM_{2.5}$	0.66	0.99
		CO	0.41	0.62
		NO_x	0.49	0.74
		SO_2	<0.01	<0.01
		VOC	0.03	0.04
43.900F	FS-Fluid Bed Dryer - Line 3A Cyclone Stack	PM	1.24	1.87
		PM_{10}	1.24	1.87
		$PM_{2.5}$	1.24	1.87
		CO	0.33	0.49
		NO_x	0.39	0.59
		SO_2	<0.01	<0.01
		VOC	0.02	0.03
		H_2SO_4	0.04	0.06
43.905F	FS-Fluid Bed Dryer - Line 3B Cyclone Stack	PM	1.24	1.87
		PM_{10}	1.24	1.87
		$PM_{2.5}$	1.24	1.87
		CO	0.33	0.49
43.905F	FS-Fluid Bed Dryer - Line 3B Cyclone Stack	NO_x	0.39	0.59
		SO_2	<0.01	<0.01
		VOC	0.02	0.03
		H_2SO_4	0.04	0.06
43.910F	FS-Fluid Bed Dryer -	PM	1.24	1.87

Emission Sources - Maximum Allowable Emission Rates

		PM_{10}	1.24	1.87
		$PM_{2.5}$	1.24	1.87
		CO	0.33	0.49
		NO_x	0.39	0.59
		SO_2	<0.01	<0.01
		VOC	0.02	0.03
		H_2SO_4	0.04	0.06
43.915F	FS-Fluid Bed Dryer - Line 3D Cyclone Stack	PM	1.24	1.87
		PM_{10}	1.24	1.87
		$PM_{2.5}$	1.24	1.87
		CO	0.33	0.49
		NO_x	0.39	0.59
		SO_2	<0.01	<0.01
		VOC	0.02	0.03
		H_2SO_4	0.04	0.06
43.930F	Buffing - Line 3 Dust Collector Stack	PM	0.66	0.99
		PM_{10}	0.66	0.99
		$PM_{2.5}$	0.66	0.99
		CO	0.41	0.62
		NO_x	0.49	0.74
		SO_2	<0.01	<0.01
		VOC	0.03	0.04
51.915F	Air Screen Cleaner/ House – Line 1 Dust Collector Stack	PM	0.99	1.48
		PM_{10}	0.99	1.48
		$PM_{2.5}$	0.99	1.48
52.915F	Air Screen Cleaner/ House – Line 2 Dust Collector Stack	PM	0.99	1.48
		PM_{10}	0.99	1.48
		$PM_{2.5}$	0.99	1.48
53.915F	Air Screen Cleaner/	PM	0.99	1.48

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		PM_{10}	0.99	1.48
		$PM_{2.5}$	0.99	1.48
58.005F	Vacuum System – Acidic Application – Common Bin Vent Stack	PM	0.04	0.06
		PM_{10}	0.04	0.06
		$PM_{2.5}$	0.04	0.06
58.010F	Acidic Lint Loadout – Common Dust Collector Stack	PM	0.69	1.03
		PM_{10}	0.69	1.03
		$PM_{2.5}$	0.69	1.03
58.355F	Vacuum System Neutralization Application – Common Bin Vent Stack	PM	0.04	0.06
		PM_{10}	0.04	0.06
		$PM_{2.5}$	0.04	0.06
51.945F	Treating - Line 1 Dryer and Dust Collector Stack	PM	1.71	2.57
		PM_{10}	1.71	2.57
		$PM_{2.5}$	1.71	2.57
		CO	0.29	0.43
		NO_x	0.34	0.51
		SO_2	<0.01	<0.01
		VOC	0.02	0.03
51.955F	Post Treating Packaging System (Baggers, De-Bagging, Seed Pack Filling) – Common Dust Collectors Stack	PM	0.64	0.96
		PM_{10}	0.64	0.96
		$PM_{2.5}$	0.64	0.96
51.965F	TMTS Powders (Treating, Mixing, Dosing) – Common Dust Collector Stack	PM	0.34	0.51
		PM_{10}	0.34	0.51
		$PM_{2.5}$	0.34	0.51
52.945F	Treating – Line 2 Dryer and Dust Collector Stack	PM	3.21	4.82
		PM_{10}	3.21	4.82

Emission Sources - Maximum Allowable Emission Rates

		$PM_{2.5}$	3.21	4.82
		CO	0.58	0.86
		NO_x	0.69	1.03
		SO_2	<0.01	<0.01
		VOC	0.04	0.06
53.945F	Treating – Line 3 Dryer and Dust Collector Stack	PM	1.71	2.57
		PM_{10}	1.71	2.57
		$PM_{2.5}$	1.71	2.57
		CO	0.29	0.43
		NO_x	0.34	0.51
		SO_2	<0.01	<0.01
		VOC	0.02	0.03
58.405F	Vacuum System – Treaters (Treating, Mixing, Dosing) – Common Bin Vent Stack	PM	0.04	0.06
		PM_{10}	0.04	0.06
		$PM_{2.5}$	0.04	0.06
51.120Y	Neutralization Line 1 Dryer Vent	PM	0.01	0.01
		PM_{10}	0.01	0.01
		$PM_{2.5}$	0.01	0.01
51.120Y	Neutralization - Line 1 Dryer Vent	CO	0.06	0.09
		NO_x	0.07	0.10
		SO_2	<0.01	<0.01
		VOC	<0.01	0.01
52.120Y	Neutralization - Line 2 Dryer Vent	PM	0.01	0.01
		PM_{10}	0.01	0.01
		$PM_{2.5}$	0.01	0.01
		CO	0.06	0.09
		NO_x	0.07	0.10
		SO_2	<0.01	<0.01
		VOC	<0.01	0.01

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53.120Y	Neutralization - Line 3 Dryer Vent	PM	0.01	0.01
		PM_{10}	0.01	0.01
		$PM_{2.5}$	0.01	0.01
		CO	0.06	0.09
		NO_x	0.07	0.10
		SO_2	<0.01	<0.01
		VOC	<0.01	0.01
51.130D	Black Seed Fluid Bed - Line 1 Dryer Vent	PM	0.03	0.04
		PM_{10}	0.03	0.04
		$PM_{2.5}$	0.03	0.04
		CO	0.29	0.43
		NO_x	0.34	0.51
		SO_2	<0.01	<0.01
		VOC	0.02	0.03
52.130D	Black Seed Fluid Bed - Line 2 Dryer Vent	PM	0.03	0.04
		PM_{10}	0.03	0.04
52.130D	Black Seed Fluid Bed - Line 2 Dryer Vent	$PM_{2.5}$	0.03	0.04
		CO	0.29	0.43
		NO_x	0.34	0.51
		SO_2	<0.01	<0.01
		VOC	0.02	0.03
53.130D	Black Seed Fluid Bed - Line 3 Dryer Vent	PM	0.03	0.04
		PM_{10}	0.03	0.04
		$PM_{2.5}$	0.03	0.04
		CO	0.29	0.43
		NO_x	0.34	0.51
		SO_2	<0.01	<0.01
		VOC	0.02	0.03
BLDFUG1	Bulk Storage Infeed /	PM	0.76	1.14

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		PM_{10}	0.76	1.14
		$PM_{2.5}$	0.76	1.14
BLDFUG2	Bulk Storage Fill - Lines 1, 2, and 3 Dust Collector Building Fugitives (5)	PM	0.01	0.02
		PM_{10}	0.01	0.02
		$PM_{2.5}$	0.01	0.02
FS_FUG1	Fuzzy Seed Truck Receiving Point 1 (5)	PM	2.59	1.35
		PM_{10}	0.85	0.44
		$PM_{2.5}$	0.14	0.08
FS_FUG2	Fuzzy Seed Truck Receiving Point 2 (5)	PM	2.59	1.35
		PM_{10}	0.85	0.44
		$PM_{2.5}$	0.14	0.08
FS_FUG3	Fuzzy Seed Truck Receiving Point 3 (5)	PM	2.59	1.35
		PM_{10}	0.85	0.44
		$PM_{2.5}$	0.14	0.08
CULL_FUG	Cull Loadout Spout (5)	PM	0.31	0.39
		PM_{10}	0.10	0.13
		$PM_{2.5}$	0.02	0.02

(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
NO_x - total oxides of nitrogen
SO_2 - sulfur dioxide
PM - total particulate matter, suspended in the atmosphere, including PM_{10} and $PM_{2.5}$, as represented
PM_{10} - total particulate matter equal to or less than 10 microns in diameter, including $PM_{2.5}$, as represented
$PM_{2.5}$ - particulate matter equal to or less than 2.5 microns in diameter
CO - carbon monoxide
H_2SO_4 - sulfuric acid
(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.

Emission Sources - Maximum Allowable Emission Rates

(6) Planned startup and shutdown emissions are included. Maintenance activities are not authorized by this permit.

Date: May 19, 2016