Emission Sources - Maximum Allowable Emission Rates

Permit Number 7715

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 (7)	
			lbs/hour	TPY (4)
01	Low Purity Storage Stockpile (5)	PM	--	0.12
		PM_{10}	--	0.06
		$PM_{2.5}$	--	0.01
21	No. 2 Drying Kiln Exhaust Stack	PM	6.23	39.54
		PM_{10}	6.23	39.54
		$PM_{2.5}$	6.23	39.54
		SO_2	0.02	0.11
		NO_x	4.12	18.04
		CO	3.46	15.15
		VOC	8.86	57.92
		Formaldehyde (6)	5.19	9.66
66	No. 3 Drying Kiln Exhaust Stack	PM	24.41	39.54
		PM_{10}	24.41	39.54
		$PM_{2.5}$	24.41	39.54
		SO_2	0.09	0.38
		NO_x	14.31	62.69
		CO	12.02	52.66
		VOC	34.80	57.92
		Formaldehyde (6)	20.82	9.66
21 & 66	Total Annual Emissions from Nos. 2 and 3 Drying Kilns	PM	--	39.54
		PM_{10}	--	39.54
		$PM_{2.5}$	--	39.54
		VOC	--	57.92
		Formaldehyde (6)	--	9.66
27	No. 2 Calcined Gypsum Silo Baghouse Stack	PM	0.48	2.10
		PM_{10}	0.48	2.10

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		$PM_{2.5}$	0.48	2.10
28	No. 2 End Sawing Equipment Baghouse Stack	PM	0.43	1.88
		PM_{10}	0.43	1.88
		$PM_{2.5}$	0.43	1.88
31	Primary Crushing (5) (Truck Unloading/Apron Feeder, Primary Crusher, Screener, and Conveyor Takeaway Transfer)	PM	0.81	3.56
		PM_{10}	0.31	1.35
		$PM_{2.5}$	0.05	0.22
43	Cut Back Saw Baghouse Stack	PM	0.26	1.13
		PM_{10}	0.26	1.13
		$PM_{2.5}$	0.26	1.13
47	Sluter Machine (Dunnage) Baghouse Stack	PM	0.51	2.25
		PM_{10}	0.51	2.25
		$PM_{2.5}$	0.51	2.25
59	Primary High Purity Storage Pile (5)	PM	--	0.13
		PM_{10}	--	0.06
		$PM_{2.5}$	--	0.01
62	No. 3 Calcined Gypsum Silo Baghouse Stack	PM	0.48	2.10
		PM_{10}	0.48	2.10
		$PM_{2.5}$	0.48	2.10
63B	Starch Silo Baghouse Stack	PM	0.10	0.45
		PM_{10}	0.10	0.45
		$PM_{2.5}$	0.10	0.45
65	No. 3 End Sawing Equipment Baghouse Stack	PM	0.86	3.75
		PM_{10}	0.86	3.75
		$PM_{2.5}$	0.86	3.75
67	Stucco System Baghouse Stack	PM	0.43	1.88

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		PM_{10}	0.43	1.88
		$PM_{2.5}$	0.43	1.88
69	Plant Liquified Petroleum Gas (LPG) Tank (1,000 gallon capacity)	VOC	<0.01	<0.01
70	Plant Diesel Tank (1,000 gallon capacity)	VOC	0.03	<0.01
71	Quarry Gasoline Tank (1,000 gallon capacity)	VOC	9.26	0.22
72	Quarry Small Diesel Tank (300 gallon capacity)	VOC	0.02	<0.01
73	Quarry Bulk Diesel Tank (15,200 gallon capacity)	VOC	0.38	<0.01
74	Plant Gasoline Tank (1,000 gallon capacity)	VOC	9.26	0.18
75	No. 2 Heat Resistant Accelerator (HRA) Ball Mill Baghouse Stack	PM	0.09	0.38
		PM_{10}	0.09	0.38
		$PM_{2.5}$	0.09	0.38
76	No. 2 Ball Mill Landplaster Bin Baghouse Stack	PM	0.05	0.23
		PM_{10}	0.05	0.23
		$PM_{2.5}$	0.05	0.23
77	USG-95 Starch Bulk Hopper Baghouse Stack	PM	0.04	0.19
		PM_{10}	0.04	0.19
		$PM_{2.5}$	0.04	0.19
78	USG-95 Starch Bulk Storage Silo Baghouse Stack	PM	0.12	0.53
		PM_{10}	0.12	0.53
		$PM_{2.5}$	0.12	0.53
79	Semi-Bulk Flyash Receiver Baghouse Stack	PM	0.03	0.13
		PM_{10}	0.03	0.13
		$PM_{2.5}$	0.03	0.13
80	Glass Mat Tile Backer Dryer Oven Exhaust Stack	PM	0.03	0.15
		PM_{10}	0.03	0.15
		$PM_{2.5}$	0.03	0.15
		SO_2	<0.01	0.01
		NO_x	0.54	2.37
		CO	0.68	2.96
		VOC	0.29	1.28
		Formaldehyde (6)	<0.01	<0.01

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81	Flyash Storage Bin Baghouse Stack	PM	0.01	0.06
		PM_{10}	0.01	0.06
		$PM_{2.5}$	0.01	0.06
82	Dry Fiber System Baghouse Stack	PM	0.26	1.13
		PM_{10}	0.26	1.13
		$PM_{2.5}$	0.26	1.13
83	Primary Screen/Secondary Crusher Dust Collector Stack	PM	0.36	1.58
		PM_{10}	0.36	1.58
		$PM_{2.5}$	0.36	1.58
84	Primary Screen/Secondary Crusher Transfers to Storage Pile Feed Conveyors (5)	PM	0.06	0.26
		PM_{10}	0.02	0.09
		$PM_{2.5}$	<0.01	0.01
85	Transfer from #1 Rock Reclaim Belt to #2 Rock Reclaim Belt (5)	PM	0.20	0.85
		PM_{10}	0.07	0.31
		$PM_{2.5}$	0.01	0.05
86	North and South Roller Mill Feed Vents, North and South LP Screw Conveyor Vents	PM	0.02	0.08
		PM_{10}	0.02	0.08
		$PM_{2.5}$	0.02	0.08
87	South Roller Mill Dust Collector Stack	PM	1.24	5.42
		PM_{10}	1.24	5.42
		$PM_{2.5}$	1.24	5.42
		SO_2	0.01	0.05
		NO_X	1.66	7.27
		CO	7.20	31.54
		VOC	0.11	0.48
		Formaldehyde (6)	<0.01	0.01
88	North Roller Mill Dust Collector Stack	PM	1.24	5.42
		PM_{10}	1.24	5.42
		$PM_{2.5}$	1.24	5.42
		SO_2	0.01	0.05
		NO_X	1.66	7.27

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		CO	7.20	31.54
		VOC	0.11	0.48
		Formaldehyde (6)	<0.01	0.01
89	North and South Kettle Feed Bin Vent, HRA Landplaster Supply Bin Vent, Stucco Dust Collector Stack	PM	0.03	0.14
		PM_{10}	0.03	0.14
		$PM_{2.5}$	0.03	0.14
90A	North Kettle Burners Stack	PM	0.24	1.06
		PM_{10}	0.24	1.06
		$PM_{2.5}$	0.24	1.06
		SO_2	0.02	0.08
		NO_X	4.77	20.89
		CO	4.61	20.20
		VOC	0.17	0.77
		Formaldehyde (6)	<0.01	0.01
90B	North Kettle Dust Collector Stack	PM	0.90	3.94
		PM_{10}	0.90	3.94
		$PM_{2.5}$	0.90	3.94
91A	South Kettle Burners Stack	PM	0.24	1.06
		PM_{10}	0.24	1.06
		$PM_{2.5}$	0.24	1.06
		SO_2	0.02	0.08
		NO_X	4.77	20.89
		CO	4.61	20.20
		VOC	0.17	0.77
		Formaldehyde (6)	<0.01	0.01
91B	South Kettle Dust Collectors Stack	PM	0.90	3.94
		PM_{10}	0.90	3.94
		$PM_{2.5}$	0.90	3.94
92	North Kettle Desteamer Dust Collector Stack	PM	0.06	0.26
		PM_{10}	0.06	0.26
		$PM_{2.5}$	0.06	0.26

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93	South Kettle Desteamer Dust Collector Stack	PM	0.06	0.26
		PM_{10}	0.06	0.26
		$PM_{2.5}$	0.06	0.26

(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
(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) The combination of all Hazardous Air Pollutants (HAPs) shall not exceed 25 tons per year (tpy) and the facility shall emit less than 10 tpy of a single HAP.
(7) Planned startup and shutdown emissions are included. Maintenance activities are authorized under a Permit by Rule (PBR) by Title 30 Texas Administrative Code Chapter 106 (30 TAC Chapter 106) or as a de minimis source by 30 TAC § 116.119.

Date: January 26, 2023