

Emission Sources - Maximum Allowable Emission Rates

Permit Number 8823A

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)
1	No. 1 Impact Mill/Calciner Baghouse Stack	VOC*	0.13	0.45
		NO _x	1.18	5.15
		SO ₂	0.07	0.25
		PM	3.27	11.45
		PM ₁₀	3.27	11.45
		PM _{2.5}	3.27	11.45
		CO	0.99	4.33
		HAPs	0.02	0.10
2	No. 2 Impact Mill/Calciner Baghouse Stack	VOC*	0.13	0.45
		NO _x	1.18	5.15
		SO ₂	0.07	0.25
		PM	1.63	5.70
		PM ₁₀	1.63	5.70
		PM _{2.5}	1.63	5.70
		CO	0.99	4.33
		HAPs	0.02	0.10
3	No. 3 Impact Mill/Calciner Baghouse Stack	VOC*	0.13	0.45
		NO _x	1.18	5.15
		SO ₂	0.07	0.25

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		PM	1.63	5.70
		PM ₁₀	1.63	5.70
		PM _{2.5}	1.63	5.70
		CO	0.99	4.33
		HAPs	0.02	0.10
4	No. 4 Impact Mill/Calciner Baghouse Stack	VOC*	0.13	0.45
		NO _x	1.18	5.15
		SO ₂	0.07	0.25
		PM	3.27	11.45
		PM ₁₀	3.27	11.45
		PM _{2.5}	3.27	11.45
		CO	0.99	4.33
		HAPs	0.02	0.10
5	No. 5 Impact Mill/Calciner Baghouse Stack	VOC*	0.13	0.45
		NO _x	1.18	5.15
		SO ₂	0.07	0.25
		PM	3.27	11.45
		PM ₁₀	3.27	11.45
		PM _{2.5}	3.27	11.45
		CO	0.99	4.33
		HAPs	0.02	0.10
6	Utility Baghouse Stack (2 Stucco Cooler Bucket Elevators, Stucco Silos 1 and 2, Stucco Surge Bin Bucket Elevator [EL1], Stucco Surge Bin Rake-Off Return Bucket Elevator [EL2], Stucco Silo	PM	0.63	2.76
		PM ₁₀	0.63	2.76
		PM _{2.5}	0.63	2.76

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	Bucket Elevator [EL3], Pin Mixer, Board End Sawing, and Sleuter Machine Saws 1 and 2)			
8	Wallboard_Dryer Vents (6 Vents) (7)	VOC*	9.00	25.92
		NO _x	10.98	38.65
		SO ₂	0.13	0.44
		PM	2.25	7.56
		PM ₁₀	2.25	7.56
		PM _{2.5}	2.25	7.56
		CO	15.32	53.91
		Total HAP	17.21	12.55
8	Wallboard_Dryer Vents (6 Vents) (7) - Emissions due to water resistant products trial	VOC*	19.28	1.62
		NO _x	10.98	0.92
		SO ₂	0.06	0.01
		PM	4.52	0.38
		PM ₁₀	2.73	0.23
		PM _{2.5}	1.79	0.15
		CO	39.66	3.33
		Total HAP	1.70	0.14
9	Crushed Gypsum Truck Unloading and Gypsum Unloading Belt Conveyor (5)	PM	0.06	0.10
		PM ₁₀	0.03	0.05
		PM _{2.5}	0.01	0.01
9A	Crushed Gypsum Handling Storage Area and Off-Spec Material Crusher (Include but not limited to: A-Frame Shuttle Belt Conveyor, Feed Hopper and Rapat Belt Conveyor, Rock Feed Excess Belt Conveyor, Rock Return Belt Conveyor,	PM	0.20	0.35
		PM ₁₀	0.09	0.17
		PM _{2.5}	0.01	0.03

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	Stucco Meter Belt, Ball Mill #1, Ball Mill #2, BMA Receiver, Vibrating Screen Feed Belt Conveyor, Hammer Mill, and Reclaim Rock Return Belt Conveyor) (5)			
11	Stucco Cooler Baghouse Stack	PM	0.72	3.15
		PM ₁₀	0.72	3.15
		PM _{2.5}	0.72	3.15
12	Landplaster Silo Baghouse Stack (Landplaster Truck Loading, Landplaster Silo, and Landplaster Day Bin)	PM	0.09	0.38
		PM ₁₀	0.09	0.38
		PM _{2.5}	0.09	0.38
13	Riser Machine Baghouse	PM	0.02	0.11
		PM ₁₀	0.02	0.11
		PM _{2.5}	0.02	0.11
	Sitewide HAP Emissions	Single HAP	--	≤10.00
		Total HAP	--	≤25.00

- (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
- SO₂ - sulfur dioxide
- PM - total particulate matter, suspended in the atmosphere, including PM₁₀ and PM_{2.5}, as represented
- PM₁₀ - total particulate matter equal to or less than 10 microns in diameter, including PM_{2.5}, as represented
- PM_{2.5} - total particulate matter equal to or less than 2.5 microns in diameter
- CO - carbon monoxide
- HAP - hazardous air pollutant as listed in § 112(b) of the Federal Clean Air Act or Title 40 Code of Federal Regulations Part 63, Subpart C
- (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) Planned startup and shutdown emissions are included, as well as planned maintenance activities identified as part of permit alteration issued on March 28, 2013.
- (7) Combined emissions for Vent #1 to Vent #6.

* VOC reported as carbon unless otherwise specified.

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Date: December 18, 2020