

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit No. 19841

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 *	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>
BP-1	CaCO ₃ Silos Baghouse Stack	PM ₁₀	0.05	0.01
BP-2	Batching/Milling/Glaze Prep/ 17.53 Glaze Line 1 Baghouse Stack 0.001	PM ₁₀ Pb	 0.0003	4.11 0.0003
BP-3	Spray Dryers 1 and 2 Baghouse Stack	PM ₁₀ VOC CO NO _x SO ₂	5.14 0.36 2.22 5.38 0.04	21.91 1.53 9.46 22.92 0.17
CS	Press(1-9)/Glaze(2-9) Baghouse Stack	PM ₁₀ Pb	8.85 0.0003	37.70 0.001
PR-1	Dryer 1 Stack	PM ₁₀ VOC CO NO _x SO ₂	0.193 0.01 0.02 0.10 0.01	0.82 0.04 0.09 0.43 0.04
PR-2	Dryer 2 Stack	PM ₁₀ VOC CO NO _x SO ₂	0.193 0.01 0.02 0.10 0.01	0.82 0.04 0.09 0.43 0.04
PR-3	Dryer 3 Stack	PM ₁₀	0.193	0.82

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Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
		VOC	0.01	0.04
		CO	0.02	0.09
		NO _x	0.10	0.43
		SO ₂	0.01	0.04
PR-4	Dryer 4 Stack	PM ₁₀	0.193	0.82
		VOC	0.01	0.04
		CO	0.02	0.09
		NO _x	0.10	0.43
		SO ₂	0.01	0.04
PR-5	Dryer 5 Stack	PM ₁₀	0.193	0.82
		VOC	0.01	0.04
		CO	0.02	0.09
		NO _x	0.10	0.43
		SO ₂	0.01	0.04
PR-6	Dryer 6 Stack	PM ₁₀	0.193	0.82
		VOC	0.01	0.04
		CO	0.02	0.09
		NO _x	0.10	0.43
		SO ₂	0.01	0.04
PR-7	Dryer 7 Stack	PM ₁₀	0.193	0.82
		VOC	0.01	0.04
		CO	0.02	0.09
		NO _x	0.10	0.43
		SO ₂	0.01	0.04
PR-8	Dryer 8 Stack	PM ₁₀	0.193	0.82
		VOC	0.01	0.04
		CO	0.02	0.09
		NO _x	0.10	0.43
		SO ₂	0.01	0.04
PR-9	Dryer 9 Stack	PM ₁₀	0.193	0.82

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<u>Point No. (1)</u>	<u>Name (2)</u>	<u>Name (3)</u>	<u>lb/hr</u>	<u>TPY</u>
		VOC	0.01	0.04
		CO	0.02	0.09
		NO _x	0.10	0.43
		SO ₂	0.01	0.04
KS-1	Kiln 1 Stack	PM ₁₀	4.00	17.06
		VOC	0.42	1.84
		CO	0.50	2.19
		NO _x	5.32	23.30
		SO ₂	0.34	1.49
		HF	0.68	2.90
		Pb	0.03	0.11
KS-2	Kiln 2 Stack	PM ₁₀	3.15	13.43
		VOC	0.21	0.92
		CO	0.25	1.10
		NO _x	2.66	11.65
		SO ₂	0.17	0.74
		HF	0.34	1.45
		Pb	0.01	0.04
KS-3	Kiln 3 Stack	PM ₁₀	1.20	5.12
		VOC	0.21	0.92
		CO	0.25	1.10
		NO _x	2.66	11.65
		SO ₂	0.17	0.74
		HF	0.34	1.45
		Pb	0.01	0.04
KS-4	Kiln 4 Stack	PM ₁₀	1.75	7.45
		VOC	0.31	1.34
		CO	0.36	1.59
		NO _x	3.87	16.95
		SO ₂	0.25	1.08
		HF	0.49	2.11

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Emission *	Source	Air Contaminant	Emission	Rates
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
		Pb	0.02	0.06
KC-1	Kiln 1 Cooler Stack	PM ₁₀	2.25	9.59
		HF	0.04	0.17
		Pb	0.002	0.01
KC-2	Kiln 2 Cooler Stack	PM ₁₀	0.26	1.11
		HF	0.02	0.09
		Pb	0.0008	0.003
KC-3	Kiln 3 Cooler Stack	PM ₁₀	1.20	5.11
		HF	0.02	0.09
		Pb	0.0008	0.003
KC-4	Kiln 4 Cooler Stack	PM ₁₀	1.75	7.44
		HF	0.03	0.12
		Pb	0.001	0.01
F-1	Raw Material/Stockpiles (4) 0.76	PM		0.174
		PM ₁₀	0.087	0.38

(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) PM - particulate matter, suspended in the atmosphere, including PM₁₀
 PM₁₀ - particulate matter equal to or less than 10 microns. Where PM is not listed, it shall be assumed that no particulate matter greater than 10 microns is emitted.

Pb - lead or lead compounds and separate from PM₁₀. **(1/98)**

VOC - volatile organic compounds as defined in General Rule 101.1

CO - carbon monoxide

NO_x - total oxides of nitrogen

SO₂ - sulfur dioxide

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HF - hydrogen fluoride

(4) Fugitive emissions are an estimate only.

* Emission rates are based on and the facilities are limited by the following maximum operating schedule and production rates:

24 Hrs/day 7 Days/week 52 Weeks/year
8,520 Total hrs/year

All kilns operate 8,760 Total hrs/year

Dated_____