

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>	
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
BP-1	CaCO ₃ Silos Baghouse Stack	PM ₁₀	0.05	0.01
BP-2	Batching/Milling/Glaze Prep 15.52 Baghouse Stack	PM ₁₀ Pb	3.643 0.0002	0.0009
BP-3	Spray Dryer 1 Baghouse Stack	PM ₁₀ VOC CO NO _x SO ₂	1.23 0.18 1.11 1.68 0.02	5.24 0.78 4.74 7.16 0.08
BP-4	Spray Dryer 2 Baghouse Stack	PM ₁₀ VOC CO NO _x SO ₂	2.57 0.18 1.11 2.69 0.02	10.95 0.78 4.74 11.46 0.08
CS (1-9)	Press/Glaze Baghouse Stack	PM ₁₀ Pb	8.85 0.0003	37.70 0.0013
WT	Wall Tile Trim Line Baghouse Stack	PM ₁₀ Pb	0.51 0.00003	2.19 0.0001
PR-1	Dryer 1 Stack	PM ₁₀ VOC CO	0.193 0.01 0.02	0.82 0.04 0.09

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<u>Point No. (1)</u>	<u>Name (2)</u>	<u>Name (3)</u>	<u>lb/hr</u>	<u>TPY</u>
		NO _x	0.10	0.43
		SO ₂	0.01	0.04
PR-2	Dryer 2 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-3	Dryer 3 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-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

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PR-8	Dryer 8 Stack	CO	0.02	0.09
		NO _x	0.10	0.43
		SO ₂	0.01	0.04
		PM ₁₀	0.193	0.82
		VOC	0.01	0.04
		CO	0.02	0.09
		NO _x	0.10	0.43
PR-9	Dryer 9 Stack	SO ₂	0.01	0.04
		PM ₁₀	0.193	0.82
		VOC	0.01	0.04
		CO	0.02	0.09
		NO _x	0.10	0.43
WP-1	Wall Tile Press Dryer 1 Stack	SO ₂	0.01	0.04
		PM ₁₀	0.07	0.29
		VOC	0.0035	0.02
		CO	0.01	0.03
		NO _x	0.035	0.15
WP-2	Wall Tile Press Dryer 2 Stack	SO ₂	0.0035	0.02
		PM ₁₀	0.07	0.29
		VOC	0.0035	0.02
		CO	0.01	0.03
		NO _x	0.035	0.15
WP-3	Wall Tile Press Dryer 3 Stack	SO ₂	0.0035	0.02
		PM ₁₀	0.07	0.29
		VOC	0.0035	0.02
		CO	0.01	0.03
		NO _x	0.035	0.15
KS-1	Kiln 1 Stack	SO ₂	0.0035	0.02
		PM ₁₀	1.97	8.39
		VOC	0.12	0.51

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Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
KS-2	Kiln 2 Stack	CO	0.14	0.61
		NO _x	1.51	6.45
		SO ₂	0.10	0.40
		HF	0.13	0.55
		Pb	0.008	0.03
		PM ₁₀	1.97	8.39
		VOC	0.12	0.51
		CO	0.14	0.61
		NO _x	1.51	6.45
		SO ₂	0.10	0.40
		HF	0.13	0.55
		Pb	0.008	0.03
KS-3	Kiln 3 Stack	PM ₁₀	3.15	13.42
		VOC	0.21	0.89
		CO	0.25	1.06
		NO _x	2.66	11.32
		SO ₂	0.17	0.725
		HF	0.34	1.45
		Pb	0.01	0.04
KS-4	Kiln 4 Stack	PM ₁₀	1.20	5.11
		VOC	0.21	0.89
		CO	0.25	1.06
		NO _x	2.66	11.32
		SO ₂	0.17	0.725
		HF	0.34	1.45
		Pb	0.01	0.04
KS-5	Kiln 5 Stack	PM ₁₀	4.00	17.04
		VOC	0.42	1.79
		CO	0.50	2.13
		NO _x	5.32	22.66
		SO ₂	0.34	1.45
		HF	0.68	2.90
		Pb	0.026	0.11

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Emission *	Source	Air Contaminant	Emission	Rates
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
WK	Wall Tile Trim Kiln Stack	PM ₁₀	0.34	1.46
		VOC	0.02	0.09
		CO	0.02	0.10
		NO _x	0.26	1.12
		SO ₂	0.02	0.07
		HF	0.02	0.10
		Pb	0.001	0.006
KC-1	Kiln 1 Cooler Stack	PM ₁₀	0.68	2.88
		HF	0.01	0.05
		Pb	0.0005	0.002
KC-2	Kiln 2 Cooler Stack	PM ₁₀	0.68	2.88
		HF	0.01	0.05
		Pb	0.0005	0.002
KC-3	Kiln 3 Cooler Stack	PM ₁₀	0.26	1.11
		HF	0.02	0.09
		Pb	0.0008	0.003
KC-4	Kiln 4 Cooler Stack	PM ₁₀	1.20	5.26
		HF	0.02	0.09
		Pb	0.0008	0.003
KC-5	Kiln 5 Cooler	PM ₁₀	2.25	9.59
		HF	0.04	0.17
		Pb	0.002	0.009
W.C.	Trim Kiln Cooler Stack	PM ₁₀	0.12	0.50
		HF	0.002	0.01
		Pb	0.0001	0.0003
F-1	Raw Material/Stockpiles (4) 0.99		PM	0.225
		PM ₁₀	0.113	0.49

(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

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fugitive source name.

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- (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
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					

Dated_____