

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Number 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 Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates</u>	
			lb/hr	TPY
BP-2	Batching/Milling Processes/Glaze Prep/Glaze Lines 1 and 2 Baghouse Stack (Baghouses BP-2A, BP-2B, BP-2C, BP-2D)	PM/PM ₁₀	4.86	20.70
		Cr ⁶⁺ (6)	0.005	0.02
BP-3	Spray Dryers 1 and 2 Baghouse Stack (Baghouses BP-3, BP-4A, BP-4B)	PM/PM ₁₀	5.13	21.84
		VOC	0.25	1.09
		CO	3.89	16.58
		NO _x	4.63	19.74
		SO ₂	0.63	2.68
CS	Presses 1-7 and Glaze Lines 3-9 Baghouse Stack (Baghouses CS-1, CS-2, CS-3, CS-4)	PM/PM ₁₀	8.85	37.70
		Cr ⁶⁺ (6)	0.005	0.02
PR-1	Press Dryer 1	PM/PM ₁₀	0.38	1.61
		VOC	0.01	0.05
		CO	2.54	10.81
		NO _x	0.13	0.53
		SO ₂	<0.01	0.01
PR-2	Press Dryer 2	PM/PM ₁₀	0.38	1.61
		VOC	0.01	0.05
		CO	2.54	10.81
		NO _x	0.13	0.53
		SO ₂	<0.01	0.01

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			lb/hr	TPY
PR-3	Press Dryer 3	PM/PM ₁₀	0.38	1.61
		VOC	0.01	0.05
		CO	2.54	10.81
		NO _x	0.13	0.53
		SO ₂	<0.01	0.01
PR-4	Press Dryer 4	PM/PM ₁₀	0.38	1.61
		VOC	0.01	0.05
		CO	2.54	10.81
		NO _x	0.13	0.53
		SO ₂	<0.01	0.01
PR-5	Press Dryer 5	PM/PM ₁₀	0.38	1.61
		VOC	0.01	0.05
		CO	2.54	10.81
		NO _x	0.13	0.53
		SO ₂	<0.01	0.01
PR-6	Press Dryer 6	PM/PM ₁₀	0.38	1.61
		VOC	0.01	0.05
		CO	2.54	10.81
		NO _x	0.13	0.53
		SO ₂	<0.01	0.01
PR-7	Press Dryer 7	PM/PM ₁₀	0.38	1.61
		VOC	0.01	0.05
		CO	2.54	10.81
		NO _x	0.13	0.53
		SO ₂	<0.01	0.01

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			lb/hr	TPY
KS-1	Kiln 1 Stack	PM/PM ₁₀ (7)	2.44	10.41
		VOC	0.26	1.11
		CO	0.30	1.39
		NO _x	3.51	15.10
		SO ₂	0.22	0.95
		HF	1.35	5.76
		HCl	1.14	4.87
		Pb (5)	0.01	0.05
KS-2	Kiln 2 Stack	PM/PM ₁₀ (7)	3.47	14.78
		VOC	0.23	1.00
		CO	0.27	1.26
		NO _x	3.16	13.61
		SO ₂	0.20	0.85
		HF	1.22	5.19
		HCl	1.03	4.39
		Pb (5)	0.01	0.05
KS-3	Kiln 3 Stack	PM/PM ₁₀ (7)	1.32	5.64
		VOC	0.23	1.00
		CO	0.27	1.26
		NO _x	3.16	13.61
		SO ₂	0.20	0.85
		HF	1.22	5.19
		HCl	1.03	4.39
		Pb (5)	0.01	0.05
KS-4	Kiln 4 Stack	PM/PM ₁₀ (7)	1.97	8.40
		VOC	0.35	1.48
		CO	0.40	1.87
		NO _x	4.70	20.24
		SO ₂	0.30	1.27
		HF	1.81	7.72
		HCl	1.53	6.53
		Pb (5)	0.02	0.08
KC-1	Kiln 1 Cooler Stack	PM/PM ₁₀ (7)	2.52	10.73
		HF	0.11	0.47

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates</u>	
			lb/hr	TPY
		HCl	0.31	1.32
		Pb (5)	0.002	0.01
KC-2	Kiln 2 Cooler Stack	PM/PM ₁₀ (7)	0.29	1.22
		HF	0.10	0.43
		HCl	0.28	1.19
		Pb (5)	0.0001	0.0003
KC-3	Kiln 3 Cooler Stack	PM/PM ₁₀ (7)	1.32	5.63
		HF	0.10	0.43
		HCl	0.28	1.19
		Pb (5)	0.0001	0.0003
KC-4	Kiln 4 Cooler Stack	PM/PM ₁₀ (7)	1.97	8.38
		HF	0.15	0.63
		HCl	0.42	1.77
		Pb (5)	0.001	0.004
BP-5	Spray Dryer 3 Baghouse Stack (Baghouses BP-5A, BP-5B)	PM/PM ₁₀	1.93	8.22
		VOC	0.24	1.03
		CO	3.69	15.72
		NO _x	4.39	18.71
		SO ₂	0.66	2.82
PR-10	Press Dryer 10	PM/PM ₁₀	0.38	1.61
		VOC	0.01	0.05
		CO	2.54	10.81
		NO _x	0.14	0.61
		SO ₂	<0.01	0.01
PR-11	Press Dryer 11	PM/PM ₁₀	0.38	1.61
		VOC	0.01	0.05
		CO	2.54	10.81

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates</u>	
			lb/hr	TPY
		NO _x	0.14	0.61
		SO ₂	<0.01	0.01
PR-12	Press Dryer 12	PM/PM ₁₀	0.38	1.61
		VOC	0.01	0.05
		CO	2.54	10.81
		NO _x	0.14	0.61
		SO ₂	<0.01	0.01
PR-13	Press Dryer 13	PM/PM ₁₀	0.38	1.61
		VOC	0.01	0.05
		CO	2.54	10.81
		NO _x	0.14	0.61
		SO ₂	<0.01	0.01
PR-14	Press Dryer 14	PM/PM ₁₀	0.38	1.61
		VOC	0.01	0.05
		CO	2.54	10.81
		NO _x	0.14	0.61
		SO ₂	<0.01	0.01
CS-B	Presses10-14, Conveyor Systems, and Plant 2 Glaze Lines 10-14 Baghouse Stack (Baghouses P2-CSA, P2-CS2B)	PM/PM ₁₀	1.50	6.39
		Cr ⁶⁺ (6)	0.002	0.01
KS-A1	Kiln A Layer 1 Stack	PM/PM ₁₀ (7)	0.38	1.62
		VOC	0.27	1.18
		CO	0.32	1.48
		NO _x	3.74	16.08
		SO ₂	1.31	5.58
		HF	1.44	6.13
		HCl	1.22	5.19
		Pb (5)	0.01	0.05
KS-A2	Kiln A Layer 2 Stack	PM/PM ₁₀ (7)	0.38	1.62
		VOC	0.27	1.18
		CO	0.32	1.48

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates</u>	
			lb/hr	TPY
		NO _x	3.74	16.08
		SO ₂	1.31	5.58
		HF	1.44	6.13
	HCl	1.22	5.19	
	Pb (5)	0.01	0.05	
KS-B1	Kiln B Layer 1 Stack	PM/PM ₁₀ (7)	0.38	1.62
		VOC	0.27	1.18
		CO	0.32	1.48
		NO _x	3.74	16.08
		SO ₂	1.31	5.58
		HF	1.44	6.13
		HCl 1.22	5.19	
		Pb (5) 0.01	0.05	
KS-B2	Kiln B Layer 2 Stack	PM/PM ₁₀ (7)	0.38	1.62
		VOC	0.27	1.18
		CO	0.32	1.48
		NO _x	3.74	16.08
		SO ₂	1.31	5.58
		HF	1.44	6.13
		HCl 1.22	5.19	
		Pb (5) 0.01	0.05	
KC-A1	Kiln A Cooler Stack1	PM/PM ₁₀ (7)	0.28	1.17
		HF	0.12	0.50
		HCl	0.33	1.41
		Pb (5)	0.001	0.004
KC-A2	Kiln A Cooler Stack 2	PM/PM ₁₀ (7)	0.28	1.17
		HF	0.12	0.50
		HCl	0.33	1.41
		Pb (5)	0.001	0.004
KC-B1	Kiln B Cooler Stack 1	PM/PM ₁₀ (7)	0.28	1.17

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates</u>	
			lb/hr	TPY
		HF	0.12	0.50
		HCl	0.33	1.41
		Pb (5)	0.001	0.004
KC-B2	Kiln B Cooler Stack 2	PM/PM ₁₀ (7)	0.28	1.17
		HF	0.12	0.50
		HCl	0.33	1.41
		Pb (5)	0.001	0.004
KD-A	Kiln A Pre-Dryer	PM/PM ₁₀ (7)	0.02	0.08
		VOC	0.01	0.06
		CO	0.02	0.07
		NO _x	0.19	0.80
		SO ₂	0.07	0.28
		HF	0.07	0.31
		HCl 0.06	0.26	
		Pb (5) 0.0003	0.001	
KD-B	Kiln B Pre-Dryer	PM/PM ₁₀ (7)	0.02	0.08
		VOC	0.01	0.06
		CO	0.02	0.07
		NO _x	0.19	0.80
		SO ₂	0.07	0.28
		HF	0.07	0.31
	HCl	0.06	0.26	
	Pb (5)	0.0003	0.001	
F-1	Raw Material Stockpiles (4) (Stockpile Nos. 1-3)	PM	0.08	0.37
		PM ₁₀	0.04	0.18

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- (1) Emission point identification - either specific equipment designation or emission point number from a plot plan.
- (2) Specific point source names. 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 PM greater than 10 microns is emitted.
Pb - lead or lead compounds and separate from PM₁₀. **(1/98)**
VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
CO - carbon monoxide
NO_x - total oxides of nitrogen
SO₂ - sulfur dioxide
HF - hydrogen fluoride
HCl - hydrogen chloride **(02/02)**
Cr⁶⁺ - hexavalent chromium **(03/07)**
- (4) Fugitive emissions are an estimate only.
- (5) Lead emissions are included in the total hourly and annual PM/PM₁₀ emission rates.
- (6) Hexavalent chromium emissions are included in the total hourly and annual PM/PM₁₀ emission rates. **(03/07)**
- (7) Ammonium chloride emissions constitute a portion of the PM₁₀ emissions. **(02/02)**

Dated March 29, 2007