

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Number 41418

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)	Emission Rates *	
			lb/hr	TPY
1	Kiln 1 (5)	PM	4.34	7.89
		PM ₁₀ 3.93	7.15	
		NO _x 1.58	2.88	
		SO ₂ 3.03	5.51	
		CO 5.42	9.86	
		VOC 0.11	0.20	
		HCl 0.77	1.40	
		HF 1.67	3.04	
2	Kiln 2 (5)	PM	4.34	7.89
		PM ₁₀ 3.93	7.15	
		NO _x 1.58	2.88	
		SO ₂ 3.03	5.51	
		CO 5.42	9.86	
		VOC 0.11	0.20	
		HCl 0.77	1.40	
		HF 1.67	3.04	
3	Kiln 3 (5)	PM	4.34	7.89
		PM ₁₀ 3.93	7.15	
		NO _x 1.58	2.88	
		SO ₂ 3.03	5.51	
		CO 5.42	9.86	
		VOC 0.11	0.20	
		HCl 0.77	1.40	
		HF 1.67	3.04	

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY
4	Kiln 4 (5)	PM	4.34	7.89
		PM ₁₀	3.93	7.15
		NO _x	1.58	2.88
		SO ₂	3.03	5.51
		CO	5.42	9.86
		VOC	0.11	0.20
		HCl	0.77	1.40
		HF	1.67	3.04
5	Kiln 5 (5)	PM	4.34	7.89
		PM ₁₀	3.93	7.15
		NO _x	1.58	2.88
		SO ₂	3.03	5.51
		CO	5.42	9.86
		VOC	0.11	0.20
		HCl	0.77	1.40
		HF	1.67	3.04
6	Kiln 6 (5)	PM	4.34	7.89
		PM ₁₀	3.93	7.15
		NO _x	1.58	2.88
		SO ₂	3.03	5.51
		CO	5.42	9.86
		VOC	0.11	0.20
		HCl	0.77	1.40
		HF	1.67	3.04
7	Kiln 1 Vent (5)	PM	<0.01	<0.01

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY
		PM ₁₀	<0.01	
		NO _x	<0.01	
		SO ₂	<0.01	
		CO	<0.01	
		VOC	<0.01	
		HCl	<0.01	
		HF	<0.01	
8	Kiln 2 Vent (5)	PM	<0.01	<0.01
		PM ₁₀	<0.01	
		NO _x	<0.01	
		SO ₂	<0.01	
		CO	<0.01	
		VOC	<0.01	
		HCl	<0.01	
		HF	<0.01	
9	Kiln 3 Vent (5)	PM	<0.01	<0.01
		PM ₁₀	<0.01	
		NO _x	<0.01	
		SO ₂	<0.01	
		CO	<0.01	
		VOC	<0.01	
		HCl	<0.01	
		HF	<0.01	
10	Kiln 4 Vent (5)	PM	<0.01	<0.01
		PM ₁₀	<0.01	

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY
		NO _x	<0.01	
		SO ₂	<0.01	
		CO	<0.01	
		VOC	<0.01	
		HCl	<0.01	
		HF	<0.01	
11	Kiln 5 Vent (5)	PM	<0.01	<0.01
		PM ₁₀	<0.01	
		NO _x	<0.01	
		SO ₂	<0.01	
		CO	<0.01	
		VOC	<0.01	
		HCl	<0.01	
		HF	<0.01	
12	Kiln 6 Vent (5)	PM	<0.01	<0.01
		PM ₁₀	<0.01	
		NO _x	<0.01	
		SO ₂	<0.01	
		CO	<0.01	
		VOC	<0.01	
		HCl	<0.01	
		HF	<0.01	
13	Dryer 1	PM	0.42	1.84
		PM ₁₀	0.42	1.84
		NO _x	0.22	0.97

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY
14	Dryer 2	SO ₂	<0.01	
		CO	0.70	
		VOC	0.07	
		HCl	<0.01	
		HF	<0.01	
		PM	0.42	1.84
		PM ₁₀	0.42	1.84
		NO _x	0.22	0.97
		SO ₂	<0.01	
		CO	0.70	3.06
		VOC	0.07	0.30
		HCl	<0.01	
		HF	<0.01	
		PM	0.42	1.84
15	Dryer 3	PM ₁₀	0.42	1.84
		NO _x	0.22	0.97
		SO ₂	<0.01	
		CO	0.70	3.06
		VOC	0.07	0.30
		HCl	<0.01	
		HF	<0.01	
		PM	0.42	1.84
		PM ₁₀	0.42	1.84
		NO _x	0.22	0.97
16	Dryer 4	SO ₂	<0.01	
		PM	0.42	1.84
		PM ₁₀	0.42	1.84
		NO _x	0.22	0.97
		SO ₂	<0.01	

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)		Emission Rates *	
				lb/hr	TPY
		CO	0.70	3.06	
		VOC	0.07	0.30	
		HCl	<0.01	<0.01	
		HF	<0.01	0.02	
17	Dryer 5	PM		0.42	1.84
		PM ₁₀	0.42	1.84	
		NO _x	0.22	0.97	
		SO ₂	<0.01	<0.01	
		CO	0.70	3.06	
		VOC	0.07	0.30	
		HCl	<0.01	<0.01	
		HF	<0.01	0.02	
17B and 17C	Holding Room Burner (11)	PM ₁₀		0.04	0.16
		NO _x	0.49	2.15	
		CO	0.41	1.80	
		SO ₂	<0.01	0.01	
		VOC	<0.03	0.12	
18	Primary Crusher (4)	PM		<0.02	<0.02
		PM ₁₀	<0.01	<0.01	
7a	Kiln 7 Stack (5)	PM		4.34	7.89
		PM ₁₀	3.93	7.15	
		NO _x	1.58	2.88	
		SO ₂	3.03	5.51	
		CO	5.42	9.86	

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY
		VOC	0.11	0.20
		HCl	0.77	1.40
		HF	1.67	3.04
12a	Kiln 7 Vent (5)	PM	<0.01	<0.01
		PM ₁₀	<0.01	<0.01
		NO _x	<0.01	<0.01
		SO ₂	<0.01	<0.01
		CO	<0.01	<0.01
		VOC	<0.01	<0.01
		HCl	<0.01	<0.10
		HF	<0.01	<0.01
MHF	Material Handling (4 and 6)	PM	<0.06	<0.05
		PM ₁₀	<0.03	<0.03
CSB1F	Clay Storage Building No. 1 (4 and 7)	PM	0.36	0.09
		PM ₁₀	0.17	<0.04
CSB2F	Clay Storage Building No. 2 (4 and 8)	PM	0.02	<0.01
		PM ₁₀	0.01	<0.01
MBF	Manufacturing Building (4 and 9)	PM	0.13	0.11
		PM ₁₀	0.04	
27	Gasoline Storage Tank (1,000 gallons)	VOC	<0.01	<0.01
28	Diesel Storage Tank (6,000 gallons)	VOC	<0.01	<0.01
29	Diesel Storage Tank (4,000 gallons)	VOC	<0.01	<0.01

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u>	
			lb/hr	TPY
30	Additive A Tank	VOC	<0.01	<0.01
31	Grog Jaw Crusher (4)	PM	<0.1	<0.01
		PM ₁₀	<0.01	
GBF	Grinding Building (4)	PM	<0.01	<0.01
		PM ₁₀	<0.01	
PKGBF	Packaging Building (4)	PM	<0.01	<0.01
		PM ₁₀	<0.01	
99	Grinding Building Baghouse (10)	PM ₁₀	0.02	0.10
SPF	Stockpiles (4)	PM		0.36
		PM ₁₀	0.18	

- (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 (PM) equals to or less than 10 microns in diameter. Where PM is not listed, it shall be assumed that no particulate matter greater than 10 microns is emitted.
- NO_x - total oxides of nitrogen
 SO₂ - sulfur dioxide
 CO - carbon monoxide
 VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
 HCl - hydrogen chloride
 HF - hydrogen fluoride

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- (4) Fugitive emissions are an estimate only.
- (5) No more than four kilns may simultaneously operate in the firing mode.
- (6) Includes emissions from sources 19, 20, 21, 32, 36A, 37, 37A, 38, 38A, 39, 39A, 40, 41, and 41A as identified in the permit amendment application.
- (7) Includes emissions from sources 22, 23, 33, 34, 34A, 35, and 36 as identified in the permit amendment application.
- (8) Includes emissions from sources 22A, 23A, and 24 as identified in the permit amendment application.
- (9) Includes emissions from sources 25, 25A through 25O, and 46 as identified in the permit amendment application.
- (10) Includes emissions from sources 42, 43, and 44 as identified in the permit amendment application.
- (11) Total emissions from both stacks

* Compliance with annual emission limits is based on a rolling 12-month period.

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

Hrs/day _____ Days/week _____ Weeks/year or _____ Hrs/year 8,760

Maximum Annual Plant Throughput/Production: 115,080 tons of fired product

Dated_____