

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Number 25937

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	Grinding Apron Feeder (4)	PM	0.07	0.14
		PM ₁₀	0.03	0.06
2	Grinding Drop Point (4)	PM	0.07	0.14
		PM ₁₀	0.03	0.06
3	Grinding Apron Feeder (4)	PM	0.07	0.14
		PM ₁₀	0.03	0.06
4	Grinding Drop Point (4)	PM	0.07	0.14
		PM ₁₀	0.03	0.06
5	Grinding Dust Collector No. 1	PM ₁₀	5.1	10.2
6	Grinding Drop Point (4)	PM	0.01	0.02
		PM ₁₀	0.01	0.01
7	Grinding Screw Blender (4)	PM	0.02	0.03
		PM ₁₀	0.01	0.01
8	Grog Apron Feeder (4)	PM	0.01	0.01
		PM ₁₀	0.11	0.11
9	Grog Dust Collector (4)	PM ₁₀	3.00	6.00
10	BEP Ground Clay Feeder (4)	PM	0.01	0.01
		PM ₁₀	0.01	0.01
11	BEP Drop Point (4)	PM	0.01	0.01
		PM ₁₀	0.01	0.01
12	BEP MFG Dust Collector	PM ₁₀	1.37	2.06
13	BEP Vacuum Pump	VOC	0.01	0.01

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Emission Point No. (1)	Source Name (2)				Air Contaminant Name (3)	Emission Rates *	
						lb/hr	TPY
14	BEP Holding Room	PM ₁₀	0.85	3.74			
					NO _x	0.03	0.12
					CO	0.03	0.12
					VOC	0.13	0.58
					SO ₂	0.04	0.16
15	BEP Dryer Stack	PM ₁₀	0.49	2.15			
					NO _x	0.26	1.13
					CO	0.81	3.56
					VOC	0.08	0.34
					SO ₂	0.04	0.17
16	BEP Dryer Stack	PM ₁₀	0.49	2.15			
					NO _x	0.26	1.13
					CO	0.81	3.56
					VOC	0.08	0.34
					SO ₂	0.04	0.17
17	BEP Dryer Stack	PM ₁₀	0.49	2.15			
					NO _x	0.26	1.13
					CO	0.81	3.56
					VOC	0.08	0.34
					SO ₂	0.04	0.17
15a	BEP Dryer Stack	PM ₁₀	0.49	2.15			
					NO _x	0.26	1.13
					CO	0.81	3.56
					VOC	0.08	0.34
					SO ₂	0.04	0.17
16a	BEP Dryer Stack	PM ₁₀	0.49	2.15			
					NO _x	0.26	1.13
					CO	0.81	3.56
					VOC	0.08	0.34
					SO ₂	0.04	0.17
17a	BEP Dryer Stack	PM ₁₀	0.49	2.15			
					NO _x	0.26	1.13

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Emission Point No. (1)	Source Name (2)				Air Contaminant Name (3)	Emission Rates *	
						lb/hr	TPY
18	BEP Kiln 1 Stack	PM ₁₀	9.01	16.87	CO	0.81	3.56
					VOC	0.08	0.34
					SO ₂	0.04	0.17
					NO _x	1.12	2.1
					CO	2.39	4.48
					VOC	2.64	4.94
					SO ₂	14.0	26.21
					HF	1.72	3.22
					HCl	1.2	2.25
19	BEP Kiln 2 Stack	PM ₁₀	9.01	16.87	NO _x	1.12	2.1
					CO	2.39	4.48
					VOC	2.64	4.94
					SO ₂	14.0	26.21
					HF	1.72	3.22
					HCl	1.2	2.25
20	BEP Kiln 3 Stack	PM ₁₀	9.01	16.87	NO _x	1.12	2.1
					CO	2.39	4.48
					VOC	2.64	4.94
					SO ₂	14.0	26.21
					HF	1.72	3.22
					HCl	1.2	2.25
21	BEP Kiln 4 Stack	PM ₁₀	9.01	16.87	NO _x	1.12	2.1
					CO	2.39	4.48
					VOC	2.64	4.94
					SO ₂	14.0	26.21
					HF	1.72	3.22
					HCl	1.2	2.25
22	BEP Kiln 5 Stack	PM ₁₀	9.01	16.87	NO _x	1.12	2.1
					CO	2.39	4.48
					VOC	2.64	4.94
					SO ₂	14.0	26.21
					HF	1.72	3.22

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AIR CONTAMINANTS DATA

Emission		Source		Air Contaminant		Emission Rates *	
Point No. (1)		Name (2)			Name (3)	lb/hr	TPY
23	BEP Kiln 6 Stack	PM ₁₀	9.01	16.87	HCl	1.2	2.25
					NO _x	1.12	2.1
					CO	2.39	4.48
					VOC	2.64	4.94
					SO ₂	14.0	26.21
					HF	1.72	3.22
					HCl	1.2	2.25
18aBEP Kiln 1 S/C Stack	PM ₁₀	<0.01	<0.01				
				NO _x	<0.01	<0.01	
				CO	<0.01	<0.01	
				VOC	<0.01	<0.01	
				SO ₂	<0.01	<0.01	
				HF	<0.01	<0.01	
				HCl	<0.01	<0.01	
19aBEP Kiln 2 S/C Stack	PM ₁₀	<0.01	<0.01				
				NO _x	<0.01	<0.01	
				CO	<0.01	<0.01	
				VOC	<0.01	<0.01	
				SO ₂	<0.01	<0.01	
				HF	<0.01	<0.01	
				HCl	<0.01	<0.01	
20aBEP Kiln 3 S/C Stack	PM ₁₀	<0.01	<0.01				
				NO _x	<0.01	<0.01	
				CO	<0.01	<0.01	
				VOC	<0.01	<0.01	
				SO ₂	<0.01	<0.01	
				HF	<0.01	<0.01	
				HCl	<0.01	<0.01	
21aBEP Kiln 4 S/C Stack	PM ₁₀	<0.01	<0.01				
				NO _x	<0.01	<0.01	
				CO	<0.01	<0.01	
				VOC	<0.01	<0.01	
				SO ₂	<0.01	<0.01	
				HF	<0.01	<0.01	

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY
		HCl	<0.01	<0.01
22aBEP Kiln 5 S/C Stack	PM ₁₀		<0.01	<0.01
		NO _x	<0.01	<0.01
		CO	<0.01	<0.01
		VOC	<0.01	<0.01
		SO ₂	<0.01	<0.01
		HF	<0.01	<0.01
		HCl	<0.01	<0.01
23aBEP Kiln 6 S/C Stack	PM ₁₀		<0.01	<0.01
		NO _x	<0.01	<0.01
		CO	<0.01	<0.01
		VOC	<0.01	<0.01
		SO ₂	<0.01	<0.01
		HF	<0.01	<0.01
		HCl	<0.01	<0.01
24BTP Ground Clay Feeder (4)	PM		0.01	0.02
		PM ₁₀	0.13	0.26
24a BTP Drop Point (4)	PM		0.01	0.02
		PM ₁₀	0.13	0.26
24b BTP Vacuum Pump	VOC		0.01	0.04
25 BTP Holding Room	PM ₁₀		0.82	3.59
		NO _x	0.03	0.11
		CO	0.31	1.35
		VOC	0.82	3.59
		SO ₂	0.05	0.21
		HF	<0.01	0.02
		HCl	<0.01	0.01
26BTP Tunnel Dryer Stack	PM ₁₀		0.37	1.63
		NO _x	0.03	0.15
		CO	3.49	15.31
		VOC	0.82	3.59
		SO ₂	0.05	0.20

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AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)			Air Contaminant Name (3)	Emission Rates *	
					lb/hr	TPY
27BTP Tunnel Dryer Stack	PM ₁₀	0.37	1.63	HF	<0.01	0.02
				HCl	<0.01	0.01
				NO _x	0.03	0.15
				CO	3.49	15.31
				VOC	0.82	3.59
				SO ₂	0.05	0.20
				HF	<0.01	0.02
				HCl	<0.01	0.01
28BTP Tunnel Dryer Stack	PM ₁₀	0.37	1.63	NO _x	0.03	0.15
				CO	3.49	15.31
				VOC	0.82	3.59
				SO ₂	0.05	0.20
				HF	<0.01	0.02
				HCl	<0.01	0.01
				NO _x	3.29	0.08
				CO	22.32	0.56
29BTP Scrubber Bypass	PM ₁₀	17.06	0.43	VOC (total)	10.73	0.27
				VOC1	4.16	0.1
				SO ₂	44.35	1.11
				HF	6.20	0.15
				HCl	4.84	0.12
				NO _x	3.29	14.41
				CO	22.32	97.76
				VOC (total)	10.73	47.0
30 BTP Scrubber Stack	PM ₁₀	8.73	38.24	VOC1	4.16	18.22
				SO ₂	19.0	83.2
				HF	0.3	1.3
				HCl	0.20	0.92

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Emission Point No. (1)	Source Name (2)			Air Contaminant Name (3)	Emission Rates *	
					lb/hr	TPY
31BTP Kiln Dump Stack	PM ₁₀	1.97	8.63			
				NO _x	0.15	0.66
				CO	0.42	1.85
				VOC	0.31	1.35
				SO ₂	0.65	2.86
				HF	0.15	0.67
				HCl	0.22	0.98
32BTP MFG Dust Collector	PM ₁₀	0.63	1.27			
33Diesel Tank (1,000 gal)	VOC	0.01	0.04			
34Diesel Tank (3,000 gal)	VOC	0.01	0.04			
35Diesel Tank (3,000 gal)	VOC	0.01	0.04			
36Grinding Building Fugitives	PM	0.17	0.33			
	Roof Vent 1 (4)			PM ₁₀	0.08	0.16
37Grinding Building Fugitives	PM	0.17	0.33			
	Roof Vent 2 (4)			PM ₁₀	0.08	0.16
38Grinding Building Fugitives	PM	0.17	0.33			
	Roof Vent 3 (4)			PM ₁₀	0.08	0.16
39Grinding Building Fugitives	PM	0.17	0.33			
	Roof Vent 4 (4)			PM ₁₀	0.08	0.16
40 BTP MFG Building	PM	0.01	0.01			
	Fugitives (4)			PM ₁₀	0.01	0.01
41 BEP MFG Building	PM	1.29	1.94			
	Fugitives (4)			PM ₁₀	0.05	0.08
42 Grog Building	PM	0.04	0.08			
	Fugitives (4)			PM ₁₀	0.02	0.04
43Stockpile Fugitives (4)	PM		7.23			
				PM ₁₀		3.61

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY

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- (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 -particulate matter equal to or less than 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.
VOC -volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
VOC1 -nonmethane and nonethane VOCs
NO_x - total oxides of nitrogen
SO₂ - sulfur dioxide
CO - carbon monoxide
HF - hydrogen fluoride
HCl - hydrochloric acid
- (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 hours/day 7 days/week 52 weeks/year or 8,760 hours/year

Production rate:

Tunnel Kiln Plant (BTP):	184,500 tons per year of fired ware
Round Kiln Plant (BEP):	104,000 tons per year of fired ware

Dated March 1, 2007