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, sources, and related activities. 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 * (5)	
			lbs/hour	TPY (4)
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}	5.10	10.20
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

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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
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

Emission Sources - Maximum Allowable Emission Rates

		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
		CO	0.81	3.56
		VOC	0.08	0.34
		SO_2	0.04	0.17
18	BEP Kiln 1 Stack	PM_{10}	9.01	16.87
		NO_x	1.12	2.10
		CO	2.39	4.48

Emission Sources - Maximum Allowable Emission Rates

		VOC	2.64	4.94
		SO_2	14.00	26.21
		HF	1.72	3.22
		HCl	1.20	2.25
19	BEP Kiln 2 Stack	PM_{10}	9.01	16.87
		NO_x	1.12	2.10
		CO	2.39	4.48
		VOC	2.64	4.94
		SO_2	14.00	26.21
		HF	1.72	3.22
		HCl	1.20	2.25
20	BEP Kiln 3 Stack	PM_{10}	9.01	16.87
		NO_x	1.12	2.10
		CO	2.39	4.48
		VOC	2.64	4.94
		SO_2	14.00	26.21
		HF	1.72	3.22
		HCl	1.20	2.25
21	BEP Kiln 4 Stack	PM_{10}	9.01	16.87
		NO_x	1.12	2.10
		CO	2.39	4.48
		VOC	2.64	4.94

Emission Sources - Maximum Allowable Emission Rates

		SO_2	14.00	26.21
		HF	1.72	3.22
		HCl	1.20	2.25
22	BEP Kiln 5 Stack	PM_{10}	9.01	16.87
		NO_x	1.12	2.10
		CO	2.39	4.48
		VOC	2.64	4.94
		SO_2	14.00	26.21
		HF	1.72	3.22
		HCl	1.20	2.25
23	BEP Kiln 6 Stack	PM_{10}	9.01	16.87
		NO_x	1.12	2.10
		CO	2.39	4.48
		VOC	2.64	4.94
		SO_2	14.00	26.21
		HF	1.72	3.22
		HCl	1.20	2.25

18a	BEP 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

Emission Sources - Maximum Allowable Emission Rates

		HF	<0.01	<0.01
		HCl	<0.01	<0.01
19a	BEP 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
20a	BEP Kiln 3 S/C Stack 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
21a	BEP 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

Emission Sources - Maximum Allowable Emission Rates

		HCl	<0.01	<0.01
22a	BEP 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
23a	BEP 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
24	BTP 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

Emission Sources - Maximum Allowable Emission Rates

		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
26	BTP 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
27	BTP 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
28	BTP Tunnel Dryer Stack	PM_{10}	0.37	1.63

Emission Sources - Maximum Allowable Emission Rates

		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
29	BTP Scrubber Bypass	PM_{10}	17.06	0.43
		NO_x	3.29	0.08
		CO	22.32	0.56
		VOC (total)	10.73	0.27
		VOC1	4.16	0.10
		SO_2	44.35	1.11
		HF	6.20	0.15
		HCl	4.84	0.12
30	BTP Scrubber Stack	PM_{10}	8.73	38.24
		NO_x	3.29	14.41
		CO	22.32	97.76
		VOC (total)	10.73	47.00
		VOC1	4.16	18.22
		SO_2	19.00	83.20
		HF	0.30	1.30
		HCl	0.20	0.92
31	BTP Kiln Dump Stack	PM_{10}	1.97	8.63
		NO_x	0.15	0.66

Emission Sources - Maximum Allowable Emission Rates

		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
32	BTP MFG Dust Collector	PM_{10}	0.63	1.27
33	Diesel Tank (1,000 gal)	VOC	0.01	0.04
34	Diesel Tank (3,000 gal)	VOC	0.01	0.04
35	Diesel Tank (3,000 gal)	VOC	0.01	0.04
36	Grinding Building Fugitives Roof Vent 1 (4)	PM	0.17	0.33
		PM_{10}	0.08	0.16
37	Grinding Building Fugitives Roof Vent 2 (4)	PM	0.17	0.33
		PM_{10}	0.08	0.16
38	Grinding Building Fugitives Roof Vent 3 (4)	PM	0.17	0.33
		PM_{10}	0.08	0.16
39	Grinding Building Fugitives Roof Vent 4 (4)	PM	0.17	0.33
		PM_{10}	0.08	0.16
40	BTP MFG Building Fugitives (4)	PM	0.01	0.01
		PM_{10}	0.01	0.01
41	BEP MFG Building Fugitives (4)	PM	1.29	1.94
		PM_{10}	0.05	0.08
42	Grog Building Fugitives (4)	PM	0.04	0.08
		PM_{10}	0.02	0.04

Emission Sources - Maximum Allowable Emission Rates

43	Stockpile Fugitives (4)	PM	-.--	7.23
		PM_{10}	-.--	3.61

(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 PM_{10}
PM_{10} - 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
SO_2 - sulfur dioxide
CO - carbon monoxide
HF - hydrogen fluoride
HCl - hydrochloric acid
(4) Fugitive emissions are an estimate only.
(5) Planned startup and shutdown emissions are included. Maintenance activities are not authorized by this permit.

* 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

Date: January 29, 2013