EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Number 3505

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 Plant Baghouse Stack	PM_{10}	3.23	14.15
2	Rotary Calciner Wet Scrubber Stack	PM_{10}	8.16	23.80
		SO_2	20.00	58.00
		NO_x	3.49	10.20
		VOC	0.10	0.30
		CO	5.70	16.30
		HCl	<0.01	<0.01
		HF	0.04	0.13
3	ENP Manufacturing Dust Collector No. 1	PM_{10}	3.30	14.45
		SO_2	2.85	5.70
		NO_x	1.49	2.96
		VOC	0.13	0.26
		CO	1.32	2.64
		HCl	<0.01	<0.01
		HF	<0.01	<0.01
4	Lingl Dryer Waste Heat Dump Stack	PM_{10}	17.40	0.44
		SO_2	13.40	0.34
		NO_x	7.00	0.18
		VOC	0.60	0.02
		CO	24.00	0.60
		HCl	0.19	0.01
		HF	0.20	0.01
5	Lingl Dryer Stack	PM_{10}	0.45	1.97
		SO_2	0.32	1.41
		NO_x	0.24	1.03
		VOC	0.07	0.32
		CO	0.69	3.00
		HCl	0.02	0.07
		HF	0.02	0.08

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6	Lingl Dryer Stack	PM_{10}	0.45	1.97
		SO_2	0.32	1.41
		NO_x	0.24	1.03
		VOC	0.07	0.32
		CO	0.69	3.00
		HCl	0.02	0.07
		HF	0.02	0.08
7	Lingl Dryer Stack	PM_{10}	0.45	1.97
		SO_2	0.32	1.41
		NO_x	0.24	1.03
		VOC	0.07	0.32
		CO	0.69	3.00
		HCl	0.02	0.07
		HF	0.02	0.08
8	Lingl Dryer Stack	PM_{10}	0.45	1.97
		SO_2	0.32	1.41
		NO_x	0.24	1.03
		VOC	0.07	0.32
		CO	0.69	3.00
		HCl	0.02	0.07
		HF	0.02	0.08
9	Lingl Dryer Stack	PM_{10}	0.45	1.97
		SO_2	0.32	1.41
		NO_x	0.24	1.03
		VOC	0.07	0.32
		CO	0.69	3.00
		HCl	0.02	0.07
		HF	0.02	0.08
10	Lingl Dryer Stack	PM_{10}	0.45	1.97
		SO_2	0.32	1.41
		NO_x	0.24	1.03
		VOC	0.07	0.32
		CO	0.69	3.00
		HCl	0.02	0.07
		HF	0.02	0.08
11	Lingl Dryer Stack	PM_{10}	0.45	1.97
		SO_2	0.32	1.41
		NO_x	0.24	1.03
		VOC	0.07	0.32
		CO	0.69	3.00
		HCl	0.02	0.07

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

		HF	0.02	0.08
12	Lingl Dryer Stack	PM_{10}	0.45	1.97
		SO_2	0.32	1.41
		NO_x	0.24	1.03
		VOC	0.07	0.32
		CO	0.69	3.00
		HCl	0.02	0.07
		HF	0.02	0.08
13	Lingl Dryer Stack	PM_{10}	0.45	1.97
		SO_2	0.32	1.41
		NO_x	0.24	1.03
		VOC	0.07	0.32
		CO	0.69	3.00
		HCl	0.02	0.07
		HF	0.02	0.08
14	Lingl Dryer Stack	PM_{10}	0.45	1.97
		SO_2	0.32	1.41
		NO_x	0.24	1.03
		VOC	0.07	0.32
		CO	0.69	3.00
		HCl	0.02	0.07
		HF	0.02	0.08
15	Lingl Dryer Stack	PM_{10}	0.45	1.97
		SO_2	0.32	1.41
		NO_x	0.24	1.03
		VOC	0.07	0.32
		CO	0.69	3.00
		HCl	0.02	0.07
		HF	0.02	0.08
16	ENP Plant Kiln DIFF	PM_{10}	3.18	13.93
		SO_2	20.26	88.72
		NO_x	3.15	13.81
		VOC	0.18	0.80
		CO	4.16	18.22
		HCl	3.04	13.32
		HF	0.68	2.98
16A	ENP Plant Kiln Bypass	PM_{10}	8.80	1.54
		SO_2	26.33	4.60
		NO_x	3.15	0.55
		VOC	0.18	0.03
		CO	4.16	0.73

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		HCl	7.60	1.33
		HF	7.57	1.33
17	Mold Plant Pre-Heat Burner	PM_{10}	0.15	0.68
		SO_2	0.32	1.41
		NO_x	0.06	0.24
		VOC	<0.01	0.01
		CO	0.07	0.32
18	Rotary Calciner Bypass	PM_{10}	<0.01	<0.01
		SO_2	1.96	0.02
		NO_x	1.99	0.02
		VOC	<0.01	<0.01
		CO	0.70	0.01
		HCl	<0.01	<0.01
		HF	<0.01	<0.01
19	Swindell Holding Room Stack No. 1	PM_{10}	0.53	2.34
		SO_2	1.91	8.36
		NO_x	0.28	1.23
		VOC	0.09	0.38
		CO	0.88	3.88
		HCl	<0.01	<0.01
		HF	<0.01	<0.02
20	Swindell Holding Room Stack No. 2	PM_{10}	0.53	2.34
		SO_2	1.91	8.36
		NO_x	0.28	1.23
		VOC	0.09	0.38
		CO	0.88	3.88
		HCl	<0.01	<0.01
		HF	<0.01	<0.02
21	Swindell Holding Room Stack No. 3	PM_{10}	0.53	2.34
		SO_2	1.91	8.36
		NO_x	0.28	1.23
		VOC	0.09	0.38
		CO	0.88	3.88
		HCl	<0.01	<0.01
		HF	<0.01	<0.02
22	Swindell Holding Room Stack No. 4	PM_{10}	0.53	2.34
		SO_2	1.91	8.36
		NO_x	0.28	1.23

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

		VOC	0.09	0.38
		CO	0.88	3.88
		HCl	<0.01	<0.01
		HF	<0.01	<0.02
23	Shapes Dryer Stack	PM_{10}	0.02	0.09
		SO_2	0.08	0.34
		NO_x	0.01	0.05
		VOC	<0.01	<0.01
		CO	0.04	0.16
		HCL	0.01	0.04
		HF	0.11	0.48
24	Smog Hog	PM_{10}	0.13	1.00
		VOC	0.01	0.01
25	Surge Bin Dust Collector	PM_{10}	2.40	11.00
26	Extrusion Plant Transfer Point	PM	0.03	0.01
		PM_{10}	0.01	0.01
27	Sand Hopper	PM	<0.01	<0.01
		PM_{10}	<0.01	<0.01
28	Sand Screen No. 1	PM	0.13	0.07
		PM_{10}	0.01	0.01
29	Sand Screen No. 2	PM	0.13	0.07
		PM_{10}	0.01	0.01
30	Calcine Drop Point	PM	0.18	0.70
		PM_{10}	0.01	0.03
31	Conveyor Pile Drop Point No. 1	PM	<0.01	<0.01
		PM_{10}	<0.01	<0.01
32	Conveyor Pile Drop Point No. 2	PM	<0.01	<0.01
		PM_{10}	<0.01	<0.01
33	Screening Transfer Point No. 1	PM	<0.01	<0.01
		PM_{10}	<0.01	<0.01
34	Screening Transfer Point No. 2	PM	<0.01	<0.01
		PM_{10}	<0.01	<0.01
35	Grandslam Transfer Point No. 1	PM	0.05	0.02
		PM_{10}	0.02	0.01
36	Grandslam Transfer	PM	0.05	0.02

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

	Point No. 2	PM_{10}	0.02	0.01
37	Diesel Tank - 10,000 gal	VOC	<0.01	<0.01
38	Gasoline Tank - 1,000 gal	VOC	<0.01	<0.01
39	Swindell Kiln	PM_{10}	9.93	43.50
		SO_2	7.65	33.50
		NO_x	4.00	17.50
		VOC	0.27	1.20
		CO	3.54	15.50
		HCl	1.94	8.50
		HF	4.22	18.50
40	Extrusion Plant Transfer Point	PM	0.02	0.01
		PM_{10}	0.01	<0.01
41	Soft Mud Plant Transfer Point No. 1	PM	0.02	0.01
		PM_{10}	0.01	<0.01
42	Soft Mud Plant Transfer Point No. 2	PM	0.02	0.01
		PM_{10}	0.01	<0.01
43	Diesel Tank - 500 gal	VOC	<0.01	<0.01
56	Farr Dust Collector	PM_{10}	0.43	0.64
64A	HI-VAC Dust Collector	PM_{10}	0.86	1.29
65A	ENP Plant Kiln Car Cleaner Dust Collector	PM_{10}	0.43	0.50
92A	Sand/Slurry Mixing Dust Collector	PM_{10}	0.43	0.64
FUG1	Rotary Calciner Building (4)	PM	0.01	0.01
		PM_{10}	0.01	0.01
FUG2	Grandslam Crusher Building (4)	PM	0.06	0.02
		PM_{10}	0.02	0.01
FUG3	Calcine Clay Storage Building (4)	PM	0.02	0.01
		PM_{10}	0.01	0.01
FUG4	Raw Material Clay Storage	PM	0.08	0.04
		PM_{10}	0.02	0.01
FUG5	Shapes Operation Building (4)	PM	0.10	0.03
		PM_{10}	0.04	0.01

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

FUG6	ENP Manufacturing Building (4)	PM	1.05	0.50
		PM_{10}	0.8	0.40
FUG7	Swindell Coatings Storage Building (4)	PM	0.16	0.10
		PM_{10}	0.13	0.10
FUG8	Harrop Building (4)	PM	<0.01	<0.01
		PM_{10}	<0.01	<0.01
FUG9	Mold Plant Building (4)	PM	0.10	0.04
		PM_{10}	0.04	0.02
FUG10	Grinding Plant Building (4)	PM	1.42	0.45
		PM_{10}	0.14	0.04
FUG11	Stockpile (4)	PM	--	7.23
		PM_{10}	--	3.61
FUG13	Raw Clay Hopper (4)	PM	<0.01	<0.01
		PM_{10}	<0.01	<0.01

(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 an area name or fugitive source name.
(3) Exempt Solvent - Those carbon compounds or mixtures of carbon compounds used as solvents which have been excluded from the definition of volatile organic compound.

VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
NO_x - total oxides of nitrogen
SO_2 - sulfur dioxide
PM - particulate matter, suspended in the atmosphere, including PM_{10}
PM_{10} - particulate matter equal to or less than 10 microns in diameter
CO - carbon monoxide
HCl - hydrogen chloride
HF - hydrogen fluoride
HAP - any air contaminant (pollutant) listed in § 112(b) of the Federal Clean Air Act or Title 40 Code of Federal Regulations Part 63, Subpart C

(4) Fugitive emissions are an estimate.

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

24 Hrs/day 7 Days/week 52 Weeks/year or 5,840 Hrs/year

5,000 Hrs/year for the Grinding and Screening, and

8,760 Hrs/year for the Brick Dryer and Tunnel Kiln. **(05/02)**

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Maximum Allowable Production Rates: **(2/07)**

Rotary Calciner (EPN 2)			40,000	TPY
Grinding Plant (EPN 1)	300	TPH	546,000	TPY
ENP Plant Kiln (EPN 16)	26.5	TPH	232,000	TPY
Swindell Kiln (EPN 39)			87,599	TPY

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

Dated February 20, 2007