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 Kiln Scrubber Stack	PM_{10}	8.16	23.80
		SO_2	20.00	58.00
		NO_x	3.49	10.20
		VOC	0.1	0.3
		CO	5.7	16.3
		HCl	<0.01	<0.01
		HF	0.043	0.13
3	Daanen Wet Dust Collector	PM_{10}	11.80	23.60
		NO_x	0.68	2.96
		SO_2	1.30	5.70
		VOC	0.06	0.26
		CO	0.60	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
		NO_x	7.00	0.18
		SO_2	13.40	0.34
		VOC	0.60	0.02
		CO	6.20	0.16
		HCl	7.92	0.20
		HF	0.24	0.01
5	Lingl Dryer Stack	PM_{10}	0.29	1.25
		NO_x	0.15	0.65
		SO_2	1.02	4.48
		VOC	0.05	0.20
		CO	0.47	2.07
		HCl	0.01	0.05
		HF	0.11	0.48

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates * lb/hr	TPY
6	Lingl Dryer Stack	PM_{10}	0.29	1.25
		NO_x	0.15	0.65
		SO_2	1.02	4.48
		VOC	0.05	0.20
		CO	0.47	2.07
		HCl	0.01	0.05
		HF	0.11	0.48
7	Lingl Dryer Stack	PM_{10}	0.29	1.25
		NO_x	0.15	0.65
		SO_2	1.02	4.48
		VOC	0.05	0.20
		CO	0.47	2.07
		HCl	0.01	0.05
		HF	0.11	0.48
8	Lingl Dryer Stack	PM_{10}	0.29	1.25
		NO_x	0.15	0.65
		SO_2	1.02	4.48
		VOC	0.05	0.20
		CO	0.47	2.07
		HCl	0.01	0.05
		HF	0.11	0.48
9	Lingl Dryer Stack	PM_{10}	0.29	1.25
		NO_x	0.15	0.65
		SO_2	1.02	4.48
		VOC	0.05	0.20
		CO	0.47	2.07
		HCl	0.01	0.05
		HF	0.11	0.48
10	Lingl Dryer Stack	PM_{10}	0.29	1.25
		NO_x	0.15	0.65
		SO_2	1.02	4.48
		VOC	0.05	0.20

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)		Emission Rates * lb/hr	TPY
		CO	0.47	2.07	
		HCl	0.01	0.05	
		HF	0.11	0.48	
11	Lingl Dryer Stack		PM_{10}	0.29	1.25
		NO_x	0.15	0.65	
		SO_2	1.02	4.48	
		VOC	0.05	0.20	
		CO	0.47	2.07	
		HCl	0.01	0.05	
		HF	0.11	0.48	
12	Lingl Dryer Stack		PM_{10}	0.29	1.25
		NO_x	0.15	0.65	
		SO_2	1.02	4.48	
		VOC	0.05	0.20	
		CO	0.47	2.07	
		HCl	0.01	0.05	
		HF	0.11	0.48	
13	Lingl Dryer Stack		PM_{10}	0.29	1.25
		NO_x	0.15	0.65	
		SO_2	1.02	4.48	
		VOC	0.05	0.20	
		CO	0.47	2.07	
		HCl	0.01	0.05	
		HF	0.11	0.48	
14	Lingl Dryer Stack		PM_{10}	0.29	1.25
		NO_x	0.15	0.65	
		SO_2	1.02	4.48	
		VOC	0.05	0.20	
		CO	0.47	2.07	
		HCl	0.01	0.05	

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)		Emission Rates * lb/hr	TPY
		HF	0.11	0.48	
15	Lingl Dryer Stack		PM_{10}	0.29	1.25
		NO_x	0.15	0.65	
		SO_2	1.02	4.48	
		VOC	0.05	0.20	
		CO	0.47	2.07	
		HCl	0.01	0.05	
		HF	0.11	0.48	

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)		Emission Rates * lb/hr	TPY
16	Kiln Stack		PM_{10}	18.60	81.46
			SO_2	12.66	55.45
			NO_x	3.56	15.59
			CO	26.93	117.95
			VOC	9.45	41.39
			HF	5.27	23.08
			HCl	7.92	34.58
17	Mold Plant Pre-Heat Burner		PM_{10}	0.10	0.43
		NO_x	0.03	0.15	
		SO_2	<0.01	<0.01	
		VOC	<0.01	0.01	
		CO	0.05	0.20	
18	Rotary Kiln Cyclone Bypass		PM_{10}	<0.01	<0.01
		NO_x	1.99	0.02	
		SO_2	1.96	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
			NO_x	0.28	1.23
		SO_2	1.91	8.36	
		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
			NO_x	0.28	1.23
		SO_2	1.91	8.36	
		VOC	0.09	0.38	
		CO	0.88	3.88	

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)		Emission Rates * lb/hr	TPY
		HCl	<0.01	<0.01	
		HF	<0.01	<0.02	
21**	Swindell Holding Room Stack No. 3		PM_{10}	0.53	2.34
			NO_x	0.28	1.23
		SO_2	1.91	8.36	
		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
			NO_x	0.28	1.23
		SO_2	1.91	8.36	
		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
		NO_x	0.01	0.05	
		SO_2	0.08	0.34	
		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

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates * lb/hr	TPY
		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 Point No. 2	PM	0.05	0.02
		PM_{10} 0.02	0.01	
37	Diesel Tank - 10,000-Gallon	VOC	<0.01	<0.01

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)		Emission Rates * lb/hr	Emission Rates * TPY
38	Gasoline Tank - 1,000-Gallon		VOC	<0.01	<0.01
39**	Swindell Kiln Exhaust Stack		PM_{10}	9.93	43.5
		NO_x	4.00	17.50	
		SO_2	7.65	33.50	
		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-Gallon		VOC	<0.01	<0.01
FUG1	Rotary Kiln Building (4)		PM	0.01	0.01
		PM_{10}	0.01	0.01	
FUG2	Grandslam Crusher Bldg. (4)		PM	0.06	0.02
		PM_{10}	0.02	0.01	
FUG3	Calcine Clay Storage Bldg. (4)		PM	0.02	0.01
		PM_{10}	0.01	0.01	
FUG4	Raw Material Clay Storage (4)		PM	0.08	0.04
		PM_{10}	0.02	0.02	

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates * lb/hr	TPY
FUG5	Shapes Operation Bldg. (4)	PM	0.10	0.03
		PM_{10}	0.04	0.01
FUG6	Mfg. Bldg. (4)	PM	1.05	0.50
		PM_{10}	0.88	0.40
FUG7**	Swindell Coatings Storage Bldg. (4)	PM	0.16	0.10
		PM_{10}	0.13	0.10
FUG8	Harrop Bldg. (4)	PM	<0.01	<0.01
		PM_{10}	<0.01	<0.01
FUG9	Mold Plant Bldg. (4)	PM	0.10	0.04
		PM_{10}	0.04	0.02
FUG10	Grinding Plant Bldg. (4)	PM	1.42	0.45
		PM_{10}	0.14	0.04

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates * lb/hr	TPY
FUG11	Stockpile (4)	PM	--	7.23
		PM_{10}	--	3.61
FUG12	Offroad Vehicle (4)	PM	--	16.00
		PM_{10}	--	6.00
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 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 10 microns in diameter. Where PM is not listed, it shall be assumed that no particulate matter greater than 10 microns is emitted.
SO_2 - sulfur dioxide
NO_x - total oxides of nitrogen
CO - carbon monoxide
VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code Section101.1
HC1 - hydrogen chloride
HF - hydrogen fluoride
(4) Fugitive emissions are an estimate only.

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

** Grandfathered facility

24 Hrs/day 7 Days/week 52 Weeks/year or 5,840 Hrs/year for the rotary kiln and 5,000 Hrs/year for the grinding and screening or 8,760 Hrs/yr for the brick dryer and tunnel kiln. **(05/02)**

Maximum Allowable Production Rates:

Rotary Kiln			40,000 tpy
Grinding	150 tph	and	546,000 tpy
New Brick Plant			144,900 tpy **(05/02)**

Dated June 4, 2002