

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	0.10	0.30
		CO	5.70	16.30
		HCl	<0.01	
		HF	0.04	0.13
3	Daanen Wet Dust Collector	PM ₁₀	11.80	23.60
		NO _x	1.49	2.96
		SO ₂	2.85	5.70
		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
		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

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				lb/hr	TPY
6	Lingl Dryer Stack	HF	0.11	0.48	1.25
		PM ₁₀		0.29	
		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

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

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY
		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	
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	
16	Mold Plant Kiln Stack	PM ₁₀	1.98	8.69
		SO ₂	10.72	47.13
		NO _x	3.56	15.59
		CO	26.93	117.95
		VOC	9.45	41.39
		HF	0.94	4.13
		HCl	4.29	18.83
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

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

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

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u>	
			lb/hr	TPY
30	Calcine Drop Point	PM PM ₁₀ 0.01	0.18 0.03	0.70
31	Conveyor Pile Drop Point No. 1	PM PM ₁₀ <0.01	<0.01 <0.01	<0.01
32	Conveyor Pile Drop Point No. 2	PM PM ₁₀ <0.01	<0.01 <0.01	<0.01
33	Screening Transfer Point No. 1	PM PM ₁₀ <0.01	<0.01 <0.01	<0.01
34	Screening Transfer Point No. 2	PM PM ₁₀ <0.01	<0.01 <0.01	<0.01
35	Grandslam Transfer Point No. 1	PM PM ₁₀ 0.02	0.05 0.01	0.02
36	Grandslam Transfer Point No. 2	PM PM ₁₀ 0.02	0.05 0.01	0.02
37	Diesel Tank - 10,000-Gallon	VOC	<0.01	<0.01
38	Gasoline Tank - 1,000-Gallon	VOC	<0.01	<0.01
39**	Swindell Kiln Exhaust Stack	PM ₁₀ NO _x 4.00 SO ₂ 7.65 VOC 0.27 CO 3.54 HCl 1.94 HF 4.22	9.93 17.50 33.50 1.20 15.50 8.50 18.50	43.5

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u>	
			lb/hr	TPY
40	Extrusion Plant Transfer Point	PM	0.02	0.01
		PM ₁₀	<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	
FUG2	Grandslam Crusher Bldg. (4)	PM	0.06	0.02
		PM ₁₀	0.01	
FUG3	Calcine Clay Storage Bldg. (4)	PM	0.02	0.01
		PM ₁₀	0.01	
FUG4	Raw Material Clay Storage (4)	PM	0.08	0.04
		PM ₁₀	0.02	
FUG5	Shapes Operation Bldg. (4)	PM	0.10	0.03
		PM ₁₀	0.01	
FUG6	Mfg. Bldg. (4)	PM	1.05	0.50
		PM ₁₀	0.40	
FUG7**	Swindell Coatings Storage Bldg. (4)	PM	0.16	0.10
		PM ₁₀	0.10	
FUG8	Harrop Bldg. (4)	PM	<0.01	<0.01

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			lb/hr	TPY
		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	
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 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 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.

SO₂ - sulfur dioxide

NO_x - total oxides of nitrogen

CO - carbon monoxide

VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1

HC1 - hydrogen chloride

HF - hydrogen fluoride

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			<u>lb/hr</u>	<u>TPY</u>

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

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(4) Fugitive emissions are an estimate only.

* 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 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:
40,000 tpy

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

** Grandfathered Facility

Dated October 15, 2003