

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit No. 7715

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		Air Contaminant		Emission Rates *	
	Name (2)	Name (3)	lb/hr	TPY		
1 (4)	Low Purity Storage		PM		0.037	0.163
2A	No. 2A Baghouse		PM		0.343	1.502
			PM ₁₀		0.257	1.126
3	No. 1 Raymond Mill Baghouse		PM		0.753	3.3
			PM ₁₀		0.212	0.931
			SO ₂		0.001	0.005
			NO _x		0.2	0.876
			CO		0.042	0.184
			VOC		0.001	0.002
4	No. 2 Raymond Mill Baghouse		PM		0.753	3.3
			PM ₁₀		0.212	0.931
			SO ₂		0.001	0.005
			NO _x		0.2	0.876
			CO		0.042	0.184
			VOC		0.001	0.002
5	No. 3 Raymond Mill Baghouse		PM		0.127	0.556
			PM ₁₀		0.05	0.218
			SO ₂		0.001	0.005
			NO _x		0.2	0.876
			CO		0.042	0.184
			VOC		0.001	0.002
6	No. 4 Raymond Mill Baghouse		PM		0.11	0.481
			PM ₁₀		0.045	0.199
			SO ₂		0.001	0.005
			NO _x		0.2	0.876
			CO		0.042	0.184
			VOC		0.001	0.002
6A	No. 5 Raymond Mill		PM		0.846	3.705

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u>	
			lb/hr	TPY
	Baghouse	PM ₁₀	0.272	1.191
		SO ₂	0.004	0.016
		NO _x	0.62	2.716
		CO	0.13	0.57
		VOC	0.002	0.007

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Emission Point No. (1)	Source Name (2)	Name (3)	Air Contaminant lb/hr	TPY	<u>Emission Rates *</u>
7	No. 1 Calcining Kettle		PM		0.548 2.402
			PM ₁₀		0.413 1.81
			SO ₂		0.009 0.039
			NO _x		2.1 9.198
			CO		0.525 2.3
			VOC		0.004 0.016
7A	No. 2 Calcining Kettle		PM		0.72 3.153
			PM ₁₀		0.521 2.283
			SO ₂		0.009 0.039
			NO _x		2.1 9.198
			CO		0.525 2.3
			VOC		0.004 0.016
8	No. 3 Calcining Kettle		PM		0.85 3.723
			PM ₁₀		0.59 2.583
			SO ₂		0.007 0.032
			NO _x		1.68 7.358
			CO		0.42 1.84
			VOC		0.003 0.013
9	No. 4 Calcining Kettle		PM		0.548 2.402
			PM ₁₀		0.413 1.81
			SO ₂		0.007 0.032
			NO _x		1.68 7.358
			CO		0.42 1.84
			VOC		0.003 0.013
10	No. 5 Calcining Kettle		PM		0.548 2.402
			PM ₁₀		0.413 1.81
			SO ₂		0.007 0.032
			NO _x		1.68 7.358
			CO		0.42 1.84
			VOC		0.003 0.013
11	No. 6 Calcining Kettle		PM		1.148 5.03
			PM ₁₀		0.791 3.466
			SO ₂		0.009 0.039
			NO _x		2.1 9.198

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AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u>		
			lb/hr	TPY	
		CO		0.525	2.3
		VOC		0.004	0.016

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			AIR CONTAMINANTS DATA		
Emission Point No. (1)	Source Name (2)	Name (3)	Air Contaminant lb/hr	TPY	<u>Emission Rates *</u>
12	No. 7 Calcining Kettle		PM	0.548	2.402
			PM ₁₀	0.413	1.81
			SO ₂	0.009	0.039
			NO _x	2.1	9.198
			CO	0.525	2.3
			VOC	0.004	0.016
13	Oriental Machine		PM	0.386	0.15
14	Durock Machine		PM	<0.001	<0.001
21	No. 2 Drying Kiln		PM	0.61	0.354
			PM ₁₀	0.585	0.34
			SO ₂	0.027	0.016
			NO _x	6.23	3.615
			CO	1.558	1.033
			VOC	0.011	0.006
23	No. 2 Pack Machine		PM	0.351	0.084
24	No. 3 Pack Machine		PM	0.351	0.432
25	No. 1 Pack Machine		PM	0.377	0.366
26	Land Plaster Silo		PM	0.034	0.15
27	No. 2 Silo		PM	0.034	0.15
28	End Sawing Equipment		PM	0.14	0.612
			PM ₁₀	0.106	0.465
30 (4)	Haul Road		PM	3.72	18.053
			PM ₁₀	3.534	17.15
31 (4)	Primary Crushing		PM	15.436	67.608
			PM ₁₀	4.803	21.039
32 (4)	Waste Storage Pile		PM	<0.001	<0.001

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					AIR CONTAMINANTS DATA	
Emission Point No. (1)	Source Name (2)	Name (3)	Air Contaminant lb/hr TPY		<u>Emission Rates *</u>	
40 (4)	Rock Loading		PM		0.022	0.095
41	Land Plaster Packing		PM		0.36	1.577
42	Tube Mill		PM		0.086	0.376

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			AIR CONTAMINANTS DATA		
Emission Point No. (1)	Source Name (2)	Name (3)	Air Contaminant lb/hr TPY	<u>Emission Rates *</u>	
43	Ty-Sa-Man Saw		PM	0.214	0.084
44	Kerfing Saw		PM	0.264	0.017
			PM ₁₀	0.2	0.013
45	Perlite Expander		PM	0.637	0.319
			PM ₁₀	0.413	0.207
			SO ₂	0.002	0.001
			NO _x	0.38	0.154
			CO	0.08	0.032
			VOC	0.001	<0.001
46 (4)	Perlite Receiver		PM	0.002	0.01
47	Slutter Machine		PM	0.514	0.669
58 (4)	Crusher Waste Pile		PM	0.003	0.014
59 (4)	Primary Storage Pile		PM	0.119	0.52
60 (4)	Gypsum Storage Pile		PM	<0.001	0.397
61	HRA System		PM	0.028	0.122
62	1,000 Ton Stucco Silo		PM	0.441	1.93
			PM ₁₀	0.37	1.621
63	Dry Mixing Equipment		PM ₁₀	0.028	0.122
64	HRA Dust Collector		PM ₁₀	0.429	1.877
65	End Sawing Equipment		PM	0.722	3.011
	No. 3		PM ₁₀	0.548	2.288
66	No. 3 Drying Kiln		PM	1.171	1.282
			PM ₁₀	1.125	1.231
			SO ₂	0.051	0.056
			NO _x	11.97	13.1
			CO	2.993	3.743

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					AIR CONTAMINANTS DATA	
Emission	Source	Air Contaminant		<u>Emission Rates *</u>		
Point No. (1)	Name (2)	Name (3)	lb/hr TPY			
			VOC	0.02	0.022	
67	Additive Dust Collector		PM	0.429	1.877	

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			AIR CONTAMINANTS DATA		
Emission Point No. (1)	Source Name (2)	Name (3)	Air Contaminant lb/hr TPY	<u>Emission Rates *</u>	
68	Plaster Storage Bin		PM PM ₁₀	0.36 0.162	1.577 0.71
69	LPG - 1,000 Gal. Tank		VOC	<0.001	<0.001
70	Diesel - 8,600 Gal. Tank		VOC	<0.001	0.016
71	Diesel - 6,000 Gal. Tank		VOC	<0.001	0.016
72	Diesel - 1,000 Gal. Tank		VOC	<0.001	<0.001
73	Diesel - 11,400 Gal. Tank		VOC	<0.001	0.016

(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

PM₁₀ - particulate matter less than 10 microns in diameter

VOC - volatile organic compounds as defined in General Rule 101.1

NO_x - total oxides of nitrogen

SO₂ - sulfur dioxide

CO - carbon monoxide

(4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.

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

Oriental Machine, EPN 13
6,700 tons per year

Durock Machine, EPN 14
2,175 tons per year

No. 2 Pack Machine, EPN 23
2,900 tons per year

No. 3 Pack Machine, EPN 24

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	lb/hr	TPY	<u>Emission Rates *</u>
	<u>29,500</u> tons per year				
	No. 1 Pack Machine, EPN 25				
	<u>29,200</u> tons per year				

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Ty-Sa-Man Saw, EPN 45

Hrs/day____Days/week____Weeks/year____or Hrs/year 780

Kerfing Saw, EPN 44

1,705,000 square feet per year

Perlite Expander, EPN 45

Hrs/day____Days/week____Weeks/year____or Hrs/year 1,000

Slutter Machine, EPN 47

Hrs/day____Days/week____Weeks/year____or Hrs/year 2,600

All other emission points

Hrs/day____Days/week____Weeks/year____or Hrs/year 8,760

Dated _____