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 Name (2)	Air Contaminant Name (3)	Emission Rates * lb/hr	TPY
1 (4)	Low Purity Storage	TSP		0.162
		PM_{10}		0.081
2A	Secondary Crusher Baghouse Stack	TSP	0.343	1.502
		PM_{10}	0.343	1.502
3	No. 1 Raymond Mill Baghouse Stack	TSP	0.753	3.296
		PM_{10}	0.753	3.296
		SO_2	0.001	0.005
		NO_x	0.200	0.876
		CO	0.042	0.184
		VOC	0.001	0.002
4	No. 2 Raymond Mill Baghouse Stack	TSP	0.753	3.296
		PM_{10}	0.753	3.296
		SO_2	0.001	0.005
		NO_x	0.200	0.876
		CO	0.042	0.184
		VOC	<0.001	0.002
5	No. 3 Raymond Mill Baghouse Stack	TSP	1.053	4.610
		PM_{10}	1.053	4.610
		SO_2	0.001	0.005
		NO_x	0.200	0.876
		CO	0.042	0.184
		VOC	<0.001	0.002
6	No. 4 Raymond Mill Baghouse Stack	TSP	0.881	3.859
		PM_{10}	0.881	3.859
		SO_2	0.001	0.005
		NO_x	0.200	0.876

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	0.042	0.184
		VOC	<0.001	0.002
6A	No. 5 Raymond Mill Baghouse Stack	TSP	0.846	3.705
		PM_{10}	0.846	3.705
		SO_2	0.004	0.016
		NO_x	0.620	2.716
		CO	0.130	0.570
		VOC	0.001	0.006
7	No. 1 Calcining Kettle Baghouse Stack	TSP	0.548	2.402
		PM_{10}	0.548	2.402
		SO_2	0.009	0.039
		NO_x	2.100	9.198
		CO	0.525	2.300
		VOC	0.002	0.008
7A	No. 2 Calcining Kettle Baghouse Stack	TSP	0.720	3.153
		PM_{10}	0.720	3.153
		SO_2	0.009	0.039
		NO_x	2.100	9.198
		CO	0.525	2.300
		VOC	0.002	0.008
8	No. 3 Calcining Kettle Baghouse Stack	TSP	0.850	3.723
		PM_{10}	0.850	3.723
		SO_2	0.007	0.032
		NO_x	1.680	7.358
		CO	0.420	1.840
		VOC	0.001	0.006
9	No. 4 Calcining Kettle Baghouse Stack	TSP	0.507	2.222
		PM_{10}	0.507	2.222
		SO_2	0.007	0.032
		NO_x	1.680	7.358
		CO	0.420	1.840

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
		VOC	0.001	0.006
10	No. 5 Calcining Kettle Baghouse Stack	TSP	0.507	2.222
		PM_{10}	0.507	2.222
		SO_2	0.007	0.032
		NO_x	1.680	7.358
		CO	0.420	1.840
		VOC	0.001	0.006
11	No. 6 Calcining Kettle Baghouse Stack	TSP	1.148	5.030
		PM_{10}	1.148	5.030
		SO_2	0.009	0.039
		NO_x	2.1	9.198
		CO	0.525	2.3
		VOC	0.002	0.008
12	No. 7 Calcining Kettle Baghouse Stack	TSP	0.548	2.402
		PM_{10}	0.548	2.402
		SO_2	0.009	0.039
		NO_x	2.100	9.198
		CO	0.525	2.300
		VOC	0.002	0.008
13	Oriental/DUROCK Machine Baghouse Stack	TSP	0.386	0.281
		PM_{10}	0.386	0.281
13A	Oriental/DUROCK Machine Baghouse Stack	TSP	0.386	0.281
		PM_{10}	0.386	0.281
14	Moulding Bin Baghouse Stack	TSP	<0.001	<0.001
		PM_{10}	<0.001	<0.001
21	No. 2 Drying Kiln	TSP	0.610	0.514
		PM_{10}	0.610	0.514

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Emission Point No. (1)	Source Name (2)	AIR CONTAMINANTS DATA Air Contaminant Name (3)	Emission Rates * lb/hr	TPY
		SO_2	0.027	0.023
		NO_x	6.230	5.250
		CO	1.558	1.313
		VOC	0.005	0.004

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
23	No. 2 Pack Machine	TSP	0.351	0.085
	Baghouse Stack	PM_{10}	0.351	0.085
24	No. 3 Pack Machine	TSP	0.351	0.293
	Baghouse Stack	PM_{10}	0.351	0.293
25	No. 1 Pack Machine	TSP	0.377	0.288
	Baghouse Stack	PM_{10}	0.377	0.288
26	Land Plaster Silo	TSP	0.034	0.150
	Baghouse Stack	PM_{10}	0.034	0.150
27	No. 2 Silo	TSP	0.034	0.150
	Baghouse Stack	PM_{10}	0.034	0.150
28	End Sawing Equipment	TSP	0.429	1.877
	Baghouse Stack	PM_{10}	0.429	1.877
31 (4)	Primary Crushing/Screening/	TSP		0.457
	0.467 Unloading	PM_{10}	0.045	0.046
32 (4)	Waste Storage Pile	TSP		<0.001
		PM_{10}		<0.001
40 (4)	Rock Loading	TSP	0.022	0.095
		PM_{10}	0.011	0.048
41	Land Plaster Packing	TSP	0.360	1.577
	Baghouse Stack	PM_{10}	0.360	1.577
42	Tube Mill Baghouse	TSP	0.086	0.375
	Stack	PM_{10}	0.086	0.375

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
43	Ty-Sa-Man Saw	TSP	0.214	0.084
	Baghouse Stack	PM_{10}	0.214	0.084
44	Kerfing Saw	TSP	0.283	0.018
	Baghouse Stack	PM_{10}	0.283	0.018
45	Perlite Expander	TSP	0.637	0.318
	Baghouse Stack	PM_{10}	0.637	0.318
		SO_2	0.002	0.001
		NO_x	0.308	0.154
		CO	0.065	0.032
		VOC	0.001	<0.001
46	Perlite Receiver	TSP	0.223	0.111
	Baghouse Stack	PM_{10}	0.223	0.111
47	Slutter Machine	TSP	0.514	0.669
	Baghouse Stack	PM_{10}	0.514	0.669
58 (4)	Crusher Waste Pile	TSP		0.014
		PM_{10}		0.007
59 (4)	Primary Storage Pile	TSP		0.520
		PM_{10}		0.260
60 (4)	Gypsum Storage Pile	TSP		0.397
		PM_{10}		0.198
61	HRA System	TSP	0.129	0.563
	Baghouse Stack	PM_{10}	0.129	0.563
62	1,000-Ton Stucco Silo	TSP	0.441	1.930
	Baghouse Stack	PM_{10}	0.441	1.930

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
63	Dry Mixing Equipment Baghouse Stack	TSP	0.028	0.122
		PM_{10}	0.028	0.122
65	End Sawing Equipment No. 3 Baghouse Stack	TSP	0.857	3.754
		PM_{10}	0.857	3.754
66	No. 3 Drying Kiln	TSP	2.343	1.541
		PM_{10}	2.343	1.541
		SO_2	0.103	0.068
		NO_x	23.940	15.750
		CO	5.985	3.938
		VOC	0.02	0.013
67	Additive Dust Collector Baghouse Stack	TSP	0.429	1.877
		PM_{10}	0.429	1.877
69	LPG - 1,000 Gal. Tank	NM-VOC	0.001	0.001
70	Diesel - 8,600 Gal. Tank	NM-VOC	0.001	0.016
71	Diesel - 6,000 Gal. Tank	NM-VOC	0.001	0.016
72	Diesel - 1,000 Gal. Tank	NM-VOC	0.001	0.001
73	Diesel - 11,400 Gal. Tank	NM-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) TSP - total suspended particulate matter including PM_{10}
PM_{10} - 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

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

SO_2 - sulfur dioxide
CO - carbon monoxide
NM-VOC - non-methane VOC

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

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

Oriental/DUROCK Machine, EPNs 13 and 13A
12,500 tons per year

Moulding Bin, EPN 14
5,000 tons per year

No. 2 Pack Machine, EPN 23
5,000 tons per year

No. 3 Pack Machine, EPN 24
20,000 tons per year

No. 1 Pack Machine, EPN 25
15,475 tons per year

Perlite Expander, EPN 45
Hrs/year 1,000

Perlite Receiver, EPN 46
Hrs/year 1,000

All other emission points
Hrs/year 8,760

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

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

Dated ____