EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Number 34340

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 |
|---|---|---|---|---|
| EP01 | Board Plant Stucco Dust Collector Stack | $PM_{10}$ | 0.13 | 0.57 |
| EP02 | Board Plant Stucco Screw/E and W Stucco Bins Dust Collector Stack | $PM_{10}$ | 0.082 | 0.36 |
| EP03 | Board Plant LPN Bin Dust Collector Stack | $PM_{10}$ | 0.04 | 0.18 |
| EP06 | Mill Molding Bin and LP Feed Bin Dust Collector Stack | $PM_{10}$ | 0.085 | 0.37 |
| EP15 | Board Plant/Bundler and Cut Back Saws Dust Collector Stack | $PM_{10}$ | 0.28 | 1.23 |
| EP16 | Transfer Building/Crusher/Screens Dust Collector Stack | $PM_{10}$ | 0.429 | 1.88 |
| FE01 | Primary Crusher (4) | PM<br>$PM_{10}$ | 1.81<br>0.001 | 7.93<br>0.002 |
| FE03 | Dirt Reject (4) | PM<br>$PM_{10}$ | 0.078<br>0.0005 | 0.34<br>0.002 |
| FE04 | Transfer Elevator No. 2 Belt (4) | PM<br>$PM_{10}$ | 0.84<br>0.001 | 3.68<br>0.01 |
| FE05 | Radial Stacker (4) | PM<br>$PM_{10}$ | 0.156<br>0.0010 | 0.68<br>0.004 |

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### AIR CONTAMINANTS DATA

| Emission Point No. (1) | Source Name (2) | Air Contaminant Name (3) | Emission Rates * lb/hr | TPY |
|---|---|---|---|---|
| FE06 | Stockpile Reclaim/Loading (4) | PM | 0.18 | 0.79 |
| | | $PM_{10}$ | 0.09 | 0.39 |
| FE07 | Sizing Stacker N (4) | PM | 0.013 | 0.057 |
| | | $PM_{10}$ | 0.0001 | 0.0004 |
| FE08 | Sizing Stacker M (4) | PM | 0.013 | 0.057 |
| | | $PM_{10}$ | 0.007 | 0.031 |
| FE09 | Sizing Stacker S (4) | PM | 0.065 | 0.28 |
| | | $PM_{10}$ | 0.03 | 0.14 |
| FE10 | Dust Collector Chute (4) | PM | 0.00068 | 0.003 |
| | | $PM_{10}$ | <0.0001 | <0.001 |
| FE11 | Reclaim Wallboard Pile (4) | PM | -- | 1.54 |
| | | $PM_{10}$ | -- | 0.76 |
| FE13 | Stock Pile (4) | PM | -- | 0.40 |
| | | $PM_{10}$ | -- | 0.20 |
| FE14 | Conveyor Belt Sizing Stacker, N (4) | PM | 0.035 | 0.15 |
| | | $PM_{10}$ | 0.00005 | 0.0002 |
| FE15 | Conveyor Belt Sizing Stacker, M (4) | PM | 0.035 | 0.15 |
| | | $PM_{10}$ | 0.00005 | 0.0002 |
| FE16 | Conveyor Belt Sizing Stacker Belt Sizing, S (4) | PM | 0.175 | 0.77 |
| | | $PM_{10}$ | 0.00025 | 0.0011 |
| FE17 | Conveyor Belt Radial Stacker (4) | PM | 0.42 | 1.8 |
| | | $PM_{10}$ | 0.0006 | 0.003 |
| FE21 | Belt to Radial Stacker Transfer (4) | PM | 0.42 | 1.84 |
| | | $PM_{10}$ | 0.0039 | 0.017 |

| | | | | |
|---|---|---|---|---|
| FE23 | Loading Stone at Stockpile (4) | PM | 0.18 | 0.79 |
| | | $PM_{10}$ | 0.09 | 0.39 |
| FE24 | Dump Truck Unloading Stone at Stockpile (4) | PM | 0.0073 | 0.0013 |
| | | $PM_{10}$ | 0.0037 | 0.0006 |
| FE25 | Maxi-Grinder (4) | PM | 0.56 | 2.45 |
| | | $PM_{10}$ | 0.27 | 1.16 |

GRANDFATHERED FACILITIES (Used for Modeling Only)

| | | | | |
|---|---|---|---|---|
| EP07, EP08, and EP09 | No. 1 Kettle, No. 2 Kettle, and No. 3 Kettle | $PM_{10}$ (total) | 0.599 | 2.63 |
| | | $SO_2$ (total) | 0.03 | 0.13 |
| | | CO (total) | 1.68 | 7.36 |
| | | $NO_x$ (total) | 6.72 | 29.43 |
| EP10 | Board Stack Dryer No. 1 | $PM_{10}$ | 1.99 | 8.72 |
| EP11 | Board Stack Dryer No. 2 | $PM_{10}$ | 2.05 | 8.98 |
| EP12 | Board Stack Dryer No. 3 | $PM_{10}$ | 1.28 | 5.61 |
| EP13 | Board Stack Dryer No. 3 | $PM_{10}$ | 1.03 | 4.51 |
| | | $SO_2$ (total) | 0.21 | 0.93 |
| | | CO (total) | 12.41 | 54.35 |
| | | $NO_x$ (total) | 4.84 | 20.22 |
| | | VOC (total) | 11.99 | 52.50 |
| | | Glycol Ethers (total) | 1.23 | 5.36 |
| | | formaldehyde(total) | 1.69 | 7.42 |
| | | Acetaldehyde (total) | 0.21 | 0.93 |
| EP14 | Raymond Mills, Kettles Flash Dryer, ESP Stack | $PM_{10}$ | 7.42 | 32.51 |
| | | $SO_2$ | 0.18 | 0.79 |

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AIR CONTAMINANTS DATA

| Emission Point No. (1) | Source Name (2) | Air Contaminant Name (3) | Emission Rates * lb/hr | TPY |
|---|---|---|---|---|
| | | CO | 0.32 | 1.38 |
| | | $NO_x$ | 1.20 | 5.26 |
| | VOC | 0.08 | 0.36 | |

(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
CO - carbon monoxide
$NO_x$ - total oxides of nitrogen
VOC - volatile organic compounds
(4) Fugitive emissions are an estimate only.

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

24 Hrs/day 7 Days/week 52 Weeks/year or 8,760 Hrs/year

Maximum Production Rate: 1,051,200 tpy crusher throughput

371,000 tpy wallboard production

Dated