Under the authority of RSMo 643 and the Federal Clean Air Act the applicant is authorized to construct the air contaminant source(s) described below, in accordance with the laws, rules and conditions as set forth herein.

**Permit Number:** 022008-004  
**Project Number:** 2007-12-044  
**Owner:** Lafarge North America, Inc.  
**Owner's Address:** 15100 E. Courtney Atherton Road, Sugar Creek, MO 64058  
**Installation Name:** Lafarge North America, Inc.  
**Installation Address:** 16400 E. Kentucky Road, Independence, MO 64058  
**Location Information:** Jackson County, S19, T50N, R31W

Application for Authority to Construct was made for:

*The installation of a new portable rock-screening plant. The portable rock-screening plant has a maximum hourly design rate (MHDR) of 400 tons per hour (tph). Best Management Practices will be used to control fugitive emissions from haul roads and storage piles. This review was conducted in accordance with Section (6), Missouri State Rule 10 CSR 10-6.060, Construction Permits Required.*

☐ Standard Conditions (on reverse) are applicable to this permit.  
☑ Standard Conditions (on reverse) and Special Conditions (listed as attachments starting on page 2) are applicable to this permit.

**FEB 6 2008**  
**EFFECTIVE DATE**

[Signature]

[Signature]  
**DIRECTOR OR DESIGNEE**  
**DEPARTMENT OF NATURAL RESOURCES**
STANDARD CONDITIONS:

Permission to construct may be revoked if you fail to begin construction or modification within two years from the effective date of this permit. Permittee should notify the Air Pollution Control Program if construction or modification is not started within two years after the effective date of this permit, or if construction or modification is suspended for one year or more.

You will be in violation of 10 CSR 10-6.060 if you fail to adhere to the specifications and conditions listed in your application, this permit and the project review. Specifically, all air contaminant control devices shall be operated and maintained as specified in the application, associated plans and specifications.

You must notify the Air Pollution Control Program of the anticipated date of start up of this (these) air contaminant source(s). The information must be made available not more than 60 days but at least 30 days in advance of this date. Also, you must notify the Department of Natural Resources Regional Office responsible for the area within which you are located within 15 days after the actual start up of this (these) air contaminant source(s).

A copy of this permit and permit review shall be kept at the installation address and shall be made available to Department of Natural Resources' personnel upon request.

You may appeal this permit or any of the listed Special Conditions as provided in RSMo 643.075. If you choose to appeal, the Air Pollution Control Program must receive your written declaration within 30 days of receipt of this permit.

If you choose not to appeal, this certificate, the project review, your application and associated correspondence constitutes your permit to construct. The permit allows you to construct and operate your air contaminant source(s), but in no way relieves you of your obligation to comply with all applicable provisions of the Missouri Air Conservation Law, regulations of the Missouri Department of Natural Resources and other applicable federal, state and local laws and ordinances.

The Department of Natural Resources has established the Outreach and Assistance Center to help in completing future applications or fielding complaints about the permitting process. You are invited to contact them at 1-800-361-4827 or (573) 526-6627, or in writing addressed to Outreach and Assistance Center, P.O. Box 176, Jefferson City, MO 65102-0176.

The Air Pollution Control Program invites your questions regarding this air pollution permit. Please contact the Construction Permit Unit at (573) 751-4817. If you prefer to write, please address your correspondence to the Air Pollution Control Program; P.O. Box 176, Jefferson City, MO 65102-0176, attention Construction Permit Unit.
GENERAL SPECIAL CONDITIONS:
The permittee is authorized to construct and operate subject to the following special conditions:

The special conditions listed in this permit were included based on the authority granted the Missouri Air Pollution Control Program by the Missouri Air Conservation Law (specifically 643.075); by the Missouri Rules listed in Title 10, Division 10 of the Codes of State Regulations (specifically 10 CSR 10-6.060); by 10 CSR 10-6.060 paragraph (12)(A)10. “Conditions required by permitting authority”; by 10 CSR 10-6.010 “Ambient Air Quality Standards” and 10 CSR 10-6.060 subsections (5)(D) and (6)(A); and by control measures requested by the applicant, in their permit application, to reduce the amount of air pollutants being emitted, in accordance with 10 CSR 10-6.060 paragraph (6)(E)3. Furthermore, one or more of the Subparts of 40 CFR Part 60, New Source Performance Standards (NSPS), applies to this installation.

1. Portable Equipment Identification Requirement
   To assure that each component is properly identified as being a part of this portable rock-screening plant, PORT-0606, Lafarge North America, Inc. shall provide and maintain suitable, easily read permanent markings on each component of the plant. These markings shall be the equipment’s serial number or a company assigned identification number that uniquely identifies the individual component. These identification numbers must be submitted to the Air Pollution Control Program no later than 15 days after start-up of the portable rock-screening plant.

2. Relocation of Portable Rock-Screening Plant
   A. The portable rock-screening plant shall not be operated at any site location longer than 24 consecutive months without an intervening relocation.
   B. A complete “Portable Source Relocation Request” application must be submitted to the Air Pollution Control Program prior to any relocation of this portable rock crushing plant.
      1.) If the portable rock-screening plant is moving to a site previously permitted, and if there are no other new plants at the site, then the application must be received by the Air Pollution Control Program at least seven days prior to the relocation.
      2.) If the portable rock-screening plant is moving to a new site, or if there are other plants or equipment at the site that have not been evaluated for concurrent operation, then the application must be received by the Air Pollution Control Program at least 21 days prior to the relocation. The application must include written notification of any concurrently operating plants.

3. Recordkeeping Requirement
   The operator(s) shall maintain all records required by this permit for not less than five years and shall make them available immediately to any Missouri Department of Natural Resources’ personnel upon request.
SITE-SPECIFIC SPECIAL CONDITIONS:
The permittee is authorized to construct and operate subject to the following special conditions:

Site ID No.: 095-0285
Site Name: Independence Quarry
Site Address: 16400 East Kentucky Road, Independence, MO 64058
Site County: Jackson County, S19, T50N, R31W

1. Best Management Practices
   Lafarge North America, Inc. shall control fugitive emissions from all of the haul roads and stockpiles at this site by performing Best Management Practices, which include the usage of paving, chemical dust suppressants, or documented watering. These practices are defined in Attachment AA.

2. National Ambient Air Quality Standards (NAAQS) Limitation for Particulate Matter Less Than Ten Microns in Diameter (PM$_{10}$)
   A. The operator(s) for Lafarge North America, Inc.’s portable rock-screening plant (PORT-0606) shall ensure, while operating at this site, that the ambient impact of PM$_{10}$ at or beyond the nearest property boundary does not exceed 150 µg/m$^3$ in any 24-hour period, in accordance with the Federal NAAQS requirements (40 CFR 50.6).
   B. The portable rock-screening plant is permitted to operate under four scenarios: Solitary, concurrent (same owner), concurrent (separate owners), and concurrent (same and separate owners) operations. The total daily ambient impact of PM$_{10}$ at this site shall include the combined impact of the portable rock-screening plant and any ambient background concentration from installations or equipment located on the same site as the portable rock-screening plant.
   C. During concurrent (same owners) and concurrent (same and separate owners) operations, Lafarge North America, Inc. shall demonstrate compliance with site-specific special condition 2.A. and 2.B. by maintaining a daily record of material processed and the resulting daily PM$_{10}$ ambient impact. Attachment A, or other equivalent form(s), shall be used for concurrent (same owner) operations, and Attachment B, or other equivalent form(s), shall be used for concurrent (same and separate owner) operations.

3. Annual Emission Limit of Particulate Matter Less Than Ten Microns
   A. The operator(s) shall ensure that Lafarge North America, Inc.’s portable rock-screening plant emits less than 50 tons of PM$_{10}$ into the atmosphere in any 12-month period.
   B. To demonstrate compliance, the operator(s) shall maintain a daily record of material processed and PM$_{10}$. Attachment C, Monthly PM$_{10}$ Emissions Tracking Record, or other equivalent form(s), will be used for this purpose.

4. Restriction on Process Configuration of Primary Emission Point(s)
   The maximum hourly design rate of the plant is equal to the sum of the design rate(s) of the primary emission point(s). Lafarge North America Inc. has designated the following unit(s) as the primary emission point(s) of the portable rock-screening plant: Primary screen. Bypassing the primary emission point(s) for processing is prohibited.

5. Restriction on Minimum Distance to Nearest Property Boundary
   The primary emission point of the portable rock-screening plant, which is the primary screen, shall be located at least 700 feet from the nearest property boundary whenever it is operating at this site.

6. Recordkeeping Requirement
   The operator(s) shall maintain all records required by this permit for not less than five years and shall make them available immediately to any Missouri Department of Natural Resources’ personnel upon request.

7. Reporting Requirement
   The operator(s) shall report to the Air Pollution Control Program Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, no later than ten days after any exceedances of the limitations imposed by this permit.
Lafarge North America has applied for authority to construct a new portable rock-screening plant. Rock is processed through feeder(s), screen(s), and conveyor(s). Processing equipment is powered with a 110 horsepower diesel engine. This diesel engine can only operate to power equipment for production. The emission points are listed in the attached spreadsheet summary. This installation is not on the List of Named Installations [10 CSR 10-6.020(3)(B), Table 2]. The installation is located in Jackson County, an attainment area for all criteria air pollutants.

The portable plant is permitted to operate under the following four scenarios.

- Solitary Operations: Operations when the portable screening plant is the only plant at the site.
- Concurrent (Same Owner) Operations: Operations when other plants owned by Lafarge North America, Inc. are located at this site.
- Concurrent (Separate Owners) Operations: Operations when other plants not owned by Lafarge North America, Inc. are located at this site.
- Concurrent (Same and Separate Owners) Operations: Operations when other plants owned by Lafarge North America, Inc. and other plants not owned by Lafarge North America, Inc. are located at this site.

Currently, there is a stationary rock-crushing plant (095-0285) at the site, so the plant will be operating under concurrent (same owner) or concurrent (same and separate owners) operations. Solitary and concurrent (separate owners) operations are included in this permit in case the stationary plant ceases operations in the future.

EMISSIONS EVALUATION

Criteria air pollutants will be emitted from this operation. The main air pollutant of concern is PM$_{10}$. The potential emissions were calculated from the maximum hourly design rate (MHDR) of the equipment, appropriate emission factors, control device efficiencies, and the limiting operating hours at MHDR. The sources of the emission factors and control efficiencies are listed in the section “Permit Documents”. Controlled emission factors were used because the stationary plant at the site (095-0285) has a permit condition requiring the plant to test for inherent moisture content greater than 1.5%. Based on the conditioned potential emissions, the operation is considered a source under 10 CSR 10-6.060 section (6).

The portable rock-screening plant has an annual emission limit of less than 50 tons of PM$_{10}$ in any 12-month period. A composite PM$_{10}$ emission factor was developed for the portable rock-screening plant. The composite emission factor is incorporated into the monthly recordkeeping table, Attachment C. If the conditioned potential emissions of PM$_{10}$ were 50 tons per year or greater, then the owner would be required to submit dispersion modeling results.

Table 2: Emissions Summary (tons per year)

<table>
<thead>
<tr>
<th>Air Pollutant</th>
<th>Regulatory De Minimis Levels</th>
<th>Existing Potential Emissions</th>
<th>Existing Actual Emissions</th>
<th>Potential Emissions of the Application</th>
<th>*New Installation Conditioned Potential</th>
<th>Emission Factor (lb/ton)</th>
</tr>
</thead>
<tbody>
<tr>
<td>PM$_{10}$</td>
<td>15.0</td>
<td>N/A</td>
<td>N/A</td>
<td>61.52</td>
<td>&lt;50.00</td>
<td>0.03511</td>
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<tr>
<td>SOx</td>
<td>40.0</td>
<td>N/A</td>
<td>N/A</td>
<td>1.02</td>
<td>0.82</td>
<td>N/A</td>
</tr>
<tr>
<td>NOx</td>
<td>40.0</td>
<td>N/A</td>
<td>N/A</td>
<td>15.44</td>
<td>12.53</td>
<td>N/A</td>
</tr>
<tr>
<td>VOC</td>
<td>40.0</td>
<td>N/A</td>
<td>N/A</td>
<td>1.26</td>
<td>1.02</td>
<td>N/A</td>
</tr>
<tr>
<td>CO</td>
<td>100.0</td>
<td>N/A</td>
<td>N/A</td>
<td>3.33</td>
<td>2.70</td>
<td>N/A</td>
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<tr>
<td>HAPs</td>
<td>10.0/25.0</td>
<td>N/A</td>
<td>N/A</td>
<td>0.01</td>
<td>0.01</td>
<td>N/A</td>
</tr>
</tbody>
</table>

Note: N/A = Not Applicable

*Conditioned potential based on limit in permit conditions. Other pollutants proportionately reduced.
AMBIENT AIR QUALITY IMPACT ANALYSIS

Screening tools were used to evaluate the ambient air impact of the hourly emissions from this operation. The ambient impact was evaluated at a distance of 700 feet to the nearest property boundary. The ambient impact at this site shall not exceed the NAAQS of 150 µg/m³ of PM₁₀ at or beyond the nearest property boundary in any single 24-hour period. For sources agreeing to use Best Management Practices (BMPs), as defined in Attachment AA, haul roads and stockpiles are not modeled with screening tools. Instead, they are addressed as a background level of 20 µg/m³ of PM₁₀. To ensure conformity with NAAQS, the remaining process emissions are limited to an impact of less than 130 µg/m³ of PM₁₀ at or beyond the nearest property boundary.

The following recordkeeping procedure shall be used for each operating scenario to show compliance with NAAQS.

- **Solitary Operations**: The rock-screening plant can operate for 24 hours with violating NAAQS. No recordkeeping is necessary to show compliance.
- **Concurrent (Same Owner) Operations**: The rock-screening plant shall track its own daily ambient impact and also the daily impact of all other plants at the site to ensure that the combined daily PM₁₀ ambient impact from all plants at the site does not exceed 130 µg/m³. Attachment A, or equivalent form(s), shall be used for this purpose.
- **Concurrent (Separate Owners) Operations**: The rock-screening plant is permitted for 24.11 µg/m³ of daily PM₁₀ ambient impact while plants not owned by Lafarge North America, Inc. are permitted for 105.89 µg/m³. Since 24.11 µg/m³ corresponds to the daily PM₁₀ ambient impact of the plant if it operates for 24 hours, no recordkeeping is necessary to show compliance with NAAQS.
- **Concurrent (Same and Separate Owners) Operations**: All plants owned by Lafarge North America, Inc. are permitted for a combined 121.11 µg/m³ of daily PM₁₀ ambient impact while all plants not owned by Lafarge North America, Inc. are permitted for a combined 8.89 µg/m³. The rock-screening plant shall keep track of its own daily PM₁₀ ambient impact and the daily PM₁₀ ambient impact of all plants owned by Lafarge North America, Inc. to ensure that the combined daily PM₁₀ ambient impact from these plants does not exceed 121.11 µg/m³. Attachment B, or equivalent forms, shall be used for this purpose.

### Table 3: Ambient Air Quality Impact Analysis of PM₁₀, 24-Hour Averaging Time

<table>
<thead>
<tr>
<th>Operation</th>
<th>Ambient Impact Factor (µg/m³/ton)</th>
<th>Modeled Impact (µg/m³)</th>
<th>*Background (µg/m³)</th>
<th>NAAQS (µg/m³)</th>
<th>Daily Production Limit (tons)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Solitary</td>
<td>0.00251</td>
<td>24.11</td>
<td>20.00</td>
<td>150.00</td>
<td>9,600</td>
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<td>2. Concurrent (Same Owner)</td>
<td>0.00251</td>
<td>**</td>
<td>20.00</td>
<td>150.00</td>
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<td>3. Concurrent (Separate Owners)</td>
<td>0.00251</td>
<td>24.11</td>
<td>125.89</td>
<td>150.00</td>
<td>9,600</td>
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<tr>
<td>4. Concurrent (Same and Separate Owners)</td>
<td>0.00251</td>
<td>**</td>
<td>28.89</td>
<td>150.00</td>
<td>**</td>
</tr>
</tbody>
</table>

*Background PM₁₀ level of 20.00 µg/m³ from haul roads and stockpiles and 105.89 µg/m³ from the operation of plants not owned by Lafarge North America, Inc. during concurrent (separate owners) operations and 8.89 µg/m³ from the operations of plants not owned by Lafarge North America, Inc. during concurrent (same and separate owners) operations.

The operator(s) must balance production among concurrently operating plants such that NAAQS is not exceeded. Ambient impacts from other plants owned by Lafarge North America, Inc. shall be obtained from the operators of these plants.

### APPLICABLE REQUIREMENTS

The owner is subject to compliance with the following applicable requirements. The Missouri Air Conservation Laws and Regulations should be consulted for specific recordkeeping, monitoring, and reporting requirements.

- **Submission of Emission Data, Emission Fees and Process Information**, 10 CSR 10-6.110
- **Operating Permits**, 10 CSR 10-6.065
- No Operating Permit is required for this portable rock-screening plant.
- **Restriction of Particulate Matter to the Ambient Air Beyond the Premises of Origin**, 10 CSR 10-6.170
- **Restriction of Emission of Visible Air Contaminants**, 10 CSR 10-6.220
- **Restriction of Emission of Odors**, 10 CSR 10-3.090
- **Restriction of Emission of Particulate Matter From Industrial Processes**, 10 CSR 10-6.400
- **Restriction of Emission of Sulfur Compounds**, 10 CSR 10-6.260
- None of the New Source Performance Standards (NSPS) apply to the proposed equipment. Subpart OOO of the NSPS does not apply to plants without crushers or grinders.
- The National Emission Standards for Hazardous Air Pollutants (NESHAPs) and the currently promulgated Maximum Achievable Control Technology (MACT) regulations do not apply to the proposed equipment.
STAFF RECOMMENDATION

On the basis of this review conducted in accordance with Section (6), Missouri State Rule 10 CSR 10-6.060, *Construction Permits Required*, I recommend this permit be granted with special conditions.

Chia-Wei Young
Environmental Engineer

Date

PERMIT DOCUMENTS

The following documents are incorporated by reference into this permit:

- The Application for Authority to Construct form, designating Lafarge North America, Inc. as the owner and operator of the installation.
- Environmental Protection Agency (EPA) AP-42, *Compilation of Air Pollutant Emission Factors; Volume I, Stationary Point and Area Sources, Fifth Edition*.
- Spreadsheet calculations of potential-to-emit and ambient impact.
- Best Management Practices.
Lafarge North America, Inc., PORT-0606– Rock-Screening Plant

For Use During Concurrent (Same Owner) Operations

This sheet covers the period from ____________________ to ____________________ (Month, Day, Year)  (Copy this sheet as needed.)

<table>
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<tr>
<th>Date</th>
<th>Daily Production (tons)</th>
<th>Ambient Impact Factor (µg/m²/ton)</th>
<th>Daily PM₁₀ Impact (µg/m³)</th>
<th>Daily PM₁₀ Impact (µg/m³)</th>
<th>Daily PM₁₀ Impact (µg/m³)</th>
<th>Total PM₁₀ Level (µg/m³)</th>
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Note 1: The Daily PM₁₀ Impact (µg/m³) for the rock-screening plant is calculated by multiplying the Daily Production (tons) by the matching Ambient Impact Factor.

Note 2: The Daily PM₁₀ Impact (µg/m³) of other plants owned by Lafarge North America can be obtained from the operators of these plants.

Note 3: Background PM₁₀ Level (µg/m³) is from Haul Roads and Stockpiles.

Note 4: The TOTAL PM₁₀ Level (µg/m³) is calculated by summing the Daily PM₁₀ Ambient Impact(s) and the Background PM₁₀ Level. A TOTAL PM₁₀ Level of less than 150 µg/m³ in any 24-hour period indicates compliance.
### Attachment A: Daily Ambient PM$_{10}$ Impact Tracking Record

Lafarge North America, Inc., PORT-0606– Rock-Screening Plant

*For Use During Concurrent (Same and Separate Owners) Operations*

**Project Number:** 2007-12-044  
**County, CSTR:** Jackson County (S19, T50N, R31W)  
**Primary Unit Size:** 400 tph  
**Distance to Nearest Property Boundary:** 700 feet  

This sheet covers the period from ________________ to ________________ (Month, Day, Year)  

(Copy this sheet as needed.)

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<tr>
<th>Date</th>
<th>Lafarge North America PORT-0606 Project # 2007-12-044</th>
<th>Daily Production (tons)</th>
<th>Ambient Impact Factor (µg/m$^3$/ton)</th>
<th>$^1$Daily PM$_{10}$ Impact (µg/m$^3$)</th>
<th>$^2$Daily PM$_{10}$ Impact (µg/m$^3$)</th>
<th>$^3$Daily PM$_{10}$ Impact (µg/m$^3$)</th>
<th>$^4$TOTAL PM$_{10}$ Level (µg/m$^3$)</th>
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Note 1: The Daily PM$_{10}$ Impact (µg/m$^3$) for the rock-screening plant is calculated by multiplying the Daily Production (tons) by the matching Ambient Impact Factor.

Note 2: The Daily PM$_{10}$ Impact (µg/m$^3$) of other plants owned by Lafarge North America can be obtained from the operators of these plants.

Note 3: Background PM$_{10}$ Level (µg/m$^3$) is from Haul Roads and Stockpiles and operations of plants not owned by Lafarge North America.

Note 4: The TOTAL PM$_{10}$ Level (µg/m$^3$) is calculated by summing the Daily PM$_{10}$ Ambient Impact(s) and the Background PM$_{10}$ Level. A TOTAL PM$_{10}$ Level of less than 150 µg/m$^3$ in any 24-hour period indicates compliance.
### Attachment B: Monthly PM$_{10}$ Emissions Tracking Record

**Lafarge North America, Inc., PORT-0606 – Portable Rock-Screening Plant**

Project Number: 2007-12-044  
County, CSTR: Jackson County (S19, T50N, R31W)  
Primary Unit Size: 400 tph  
Distance to Nearest Property Boundary: 700 feet

This sheet covers the period from ____________ to ____________ (Month, Day, Year)  
*(Copy this sheet as needed.)*

<table>
<thead>
<tr>
<th>Month</th>
<th>Monthly Production (tons)</th>
<th>Composite PM$_{10}$ Emission Factor (lbs/ton)</th>
<th>¹Monthly PM$_{10}$ Emissions (lbs)</th>
<th>²Monthly PM$_{10}$ Emissions (tons)</th>
<th>³12-Month PM$_{10}$ Emissions (tons/year)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Example</td>
<td>55,000</td>
<td>0.03511</td>
<td>1931.05</td>
<td>0.97</td>
<td>0.97</td>
</tr>
<tr>
<td>Example</td>
<td>78,000</td>
<td>0.03511</td>
<td>2738.58</td>
<td>1.37</td>
<td>2.34</td>
</tr>
</tbody>
</table>

Note 1: The Monthly Emissions (lbs) are calculated by multiplying the Monthly Production (tons) by the Composite Emission Factor (lbs/ton).  
Note 2: The Monthly Emissions (tons) are calculated by dividing the Monthly Emissions (lbs) by 2,000.  
Note 3: The 12-Month Emissions (tons/year) are a rolling total calculated by adding the Month’s Emissions (tons) to the Monthly Emissions (tons) of the previous 11 months. A total of less than 50 tons in any consecutive 12-month period indicates compliance.
Attachment AA: Best Management Practices (BMPs)- Construction Industry
Fugitive Emissions

Construction Industry Sites covered by the Interim Relief Policy shall maintain Best Management Control Practices (BMPs) for fugitive emission areas at their installations when in operation. Options for BMPs are at least one of the following:

For Haul Roads:
1. **Pavement of Road Surfaces** –
   A. The operator(s) may pave all or any portion of the haul roads with materials such as asphalt, concrete, and/or other material(s) after receiving approval from the program. The pavement will be applied in accordance with industry standards for such pavement so as to achieve “Control of Fugitive Emissions” while the plant is operating.
   B. Maintenance and/or repair of the road surface will be conducted as necessary to ensure that the physical integrity of the pavement is adequate to achieve control of fugitive emissions from these areas while the plant is operating.
   C. The operator(s) shall periodically water, wash and/or otherwise clean all of the paved portions of the haul road(s) as necessary to achieve control of fugitive emissions from these areas while the plant is operating.

2. **Usage of Chemical Dust Suppressants** –
   A. The operator(s) shall apply a chemical dust suppressant (such as magnesium chloride, calcium chloride, lignosulfonates, etc.) to all the unpaved portions of the haul roads. The suppressant will be applied in accordance with the manufacturer’s suggested application rate (if available) and re-applied as necessary to achieve control of fugitive emissions from these areas while the plant is operating.
   B. The quantities of the chemical dust suppressant shall be applied, re-applied and/or maintained sufficient to achieve control of fugitive emissions from these areas while the plant is operating.
   C. The operator(s) shall record the time, date and the amount of material applied for each application of the chemical dust suppressant agent on the above areas. The operator(s) shall keep these records with the plant for not less than five years, and the operator(s) shall make these records available to Department of Natural Resources’ personnel upon request.

3. **Usage of Documented Watering** –
   A. The operator(s) shall control the fugitive emissions from all the unpaved portions of the haul roads at the installation by consistently and correctly using the application of a water spray. Documented watering will be applied in accordance with a recommended application rate of 100 gallons per day per 1,000 square feet of unpaved/untreated surface area of haul roads as necessary to achieve control of fugitive emissions from these areas while the plant is operating. For example, the operator(s) shall calculate the total square feet of unpaved vehicle activity area requiring control on any particular day, divide that product by 1,000, and multiply the quotient by 100 gallons for that day.
   B. The operator(s) shall maintain a log that documents daily water applications. This log shall include, but is not limited to, date and volumes (e.g., number of tanker applications and/or total gallons used) of water application. The log shall also record rationale for not applying water on day(s) the plant is in operation (e.g., meteorological situations, precipitation events, freezing, etc.)
   C. Meteorological precipitation of any kind, (e.g. a quarter inch or more rainfall, sleet, snow, and/or freeze thaw conditions) which is sufficient in the amount or condition to achieve control of fugitive emissions from these areas while the plant is operating.
   D. Watering may also be suspended when the ground is frozen, during periods of freezing conditions when watering would be inadvisable for traffic safety reasons, or when there will be no traffic on the roads. The operator(s) shall record a brief description of such events in the same log as the documented watering.
   E. The operator(s) shall record the date and the amount of water applied for each application on the above areas. The operator(s) shall keep these records with the plant for not less than five years, and the operator(s) shall make these records available to Department of Natural Resources’ personnel upon request.

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1 For purposes of this document, Control of Fugitive Emissions means to control particulate matter that is not collected by a capture system and visible emissions to the extent necessary to prevent violations of the air pollution law or regulation. (Note: control of visible emission is not the only factor to consider in protection of ambient air quality.)
For Vehicle Activity Areas around Open Storage Piles:

1. Pavement of Stockpile Vehicle Activity Surfaces –
   A. The operator(s) may pave all or any portion of the vehicle activity areas around the storage piles with materials such as asphalt, concrete, and/or other material(s) after receiving approval from the program. The pavement will be applied in accordance with industry standards for such pavement so as to achieve control of fugitive emissions while the plant is operating.
   B. Maintenance and/or repair of the road surface will be conducted as necessary to ensure that the physical integrity of the pavement is adequate to achieve control of fugitive emissions from these areas while the plant is operating.
   C. The operator(s) shall periodically water, wash and/or otherwise clean all of the paved portions of the vehicle activity areas around the storage piles as necessary to achieve control of fugitive emissions from these areas while the plant is operating.

2. Usage of Chemical Dust Suppressants –
   A. The operator(s) shall apply a chemical dust suppressant (such as magnesium chloride, calcium chloride, lignosulfonates, etc.) to all the vehicle activity areas around the open storage piles. The suppressant will be applied in accordance with the manufacturer’s suggested application rate (if available) and re-applied as necessary to achieve control of fugitive emissions from these areas while the plant is operating.
   B. The quantities of the chemical dust suppressant shall be applied, re-applied and/or maintained sufficient to achieve control of fugitive emissions from these areas while the plant is operating.
   C. The operator(s) shall record the time, date and the amount of material applied for each application of the chemical dust suppressant agent on the above areas. The operator(s) shall keep these records with the plant for not less than five years, and the operator(s) shall make these records available to Department of Natural Resources’ personnel upon request.

3. Usage of Documented Watering –
   A. The operator(s) shall control the fugitive emissions from all the vehicle activity areas around the storage piles at the installation by consistently and correctly using the application of a water spray. Documented watering will be applied in accordance with a recommended application rate of 100 gallons per day per 1,000 square feet of unpaved/untreated surface area of vehicle activity areas around the storage piles as necessary to achieve control of fugitive emissions from these areas while the plant is operating. (Refer to example for documented watering of haul roads.)
   B. The operator(s) shall maintain a log that documents daily water applications. This log shall include, but is not limited to, date and volumes (e.g., number of tanker applications and/or total gallons used) of water application. The log shall also record rationale for not applying water on day(s) the plant is in operations (e.g., meteorological situations, precipitation events, freezing, etc.)
   C. Meteorological precipitation of any kind, (e.g. a quarter inch or more rainfall, sleet, snow, and/or freeze thaw conditions) which is sufficient in the amount or condition to achieve control of fugitive emissions from these areas while the plant is operating.
   D. Watering may also be suspended when the ground is frozen, during periods of freezing conditions when watering would be inadvisable for traffic safety reasons, or when there will be no traffic on the roads. The operator(s) shall record a brief description of such events in the same log as the documented watering.
   E. The operator(s) shall record the date and the amount of water applied for each application on the above areas. The operator(s) shall keep these records with the plant for not less than five years, and the operator(s) shall make these records available to Department of Natural Resources’ personnel upon request.
Mr. Josh Martin  
Manager of Environment  
LaFarge North America, Inc.  
15100 East Courtney Atherton Road  
Sugar Creek, MO  64058  

RE: New Source Review Permit - Project Number: 2007-12-044  

Dear Mr. Martin:

Enclosed with this letter is your New Source Review permit. Please review your permit carefully and note the special conditions, if any, and the requirements in your permit.

Operation in accordance with the conditions and requirements in your permit and the New Source Review application submitted for project 2007-12-044 is necessary for continued compliance. The section of the permit entitled “Technical Review of Application for Authority to Construct” should not be separated from the main portion of your permit. The entire permit must be retained in your files. The reverse side of your permit certificate has important information concerning standard permit conditions and your rights and obligations under the laws and regulations of the State of Missouri.

If you have any questions regarding this permit, please do not hesitate to contact Mr. Chia-Wei Young at the department’s Air Pollution Control Program, P.O. Box 176, Jefferson City, MO 65102 or by telephone at (573) 751-4817. Thank you for your attention to this matter.

Sincerely,

AIR POLLUTION CONTROL PROGRAM

Kendall B. Hale  
New Source Review Unit Chief  

KBH:ewyn  

Enclosure

c: Kansas City Regional Office  
PAMS File: 2007-12-044  
Permit Number: