STATE OF MISSOURI
DEPARTMENT OF NATURAL RESOURCES
MISSOURI AIR CONSERVATION COMMISSION

PERMIT TO CONSTRUCT

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: 112006-006  Project Number: 2006-08-007
Owner: Doss & Harper Stone CO., Inc.
Owner’s Address: P. O. Box 888, West Plains, MO 65775
Installation Name: Doss & Harper Stone Co., Inc. - Houston Quarry
Installation Address: Route 17 South, Houston, MO 65483
Location Information: Texas County, S17, T30N, R9W

Application for Authority to Construct was made for:

The modification of an existing rock-crushing plant. The rock-crushing plant has a maximum hourly design rate (MHDR) of 200 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.

EFFECTIVE DATE

NOV - 8 2006

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.
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. Best Management Practices
   Doss & Harper Stone Co., Inc. - Houston Quarry 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 Doss & Harper Stone Co., Inc. - Houston Quarry’s rock-crushing plant (213-P053) 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 total daily ambient impact of PM$_{10}$ at this site shall include the combined impact of the rock-crushing plant and any ambient background concentration from installations or equipment located on the same site as the rock-crushing plant.
   C. To demonstrate compliance during concurrent operations with other asphalt, concrete, or rock-crushing plants, the operator(s) shall maintain a daily record of material processed.
      1.) For concurrent, same owner, operation, use Attachment A, Daily Ambient PM$_{10}$ Impact Tracking Record, or equivalent forms, for this purpose.
      2.) For concurrent, separate owner, operation, use Attachment B, Daily Ambient PM$_{10}$ Impact Tracking Record, or other equivalent forms, for this purpose.
      3.) For concurrent, separate AND same owner, operation, Attachment B, Daily Ambient PM$_{10}$ Impact Tracking Record, or other equivalent forms, can also be used.

3. Annual Emission Limit of Particulate Matter Less Than Ten Microns in Diameter (PM$_{10}$)
   A. The operator(s) shall ensure that Doss & Harper Stone Co., Inc. - Houston Quarry’s rock-crushing 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). Doss & Harper Stone Co., Inc. - Houston Quarry has designated the following unit(s) as the primary emission point(s) of the rock-crushing plant: primary crusher. 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 rock-crushing plant, which is the primary crusher, shall be located at least 1,500 feet from the nearest property boundary whenever it is operating at this site.

6. Restriction on the Use of Diesel Engine(s)/Generator(s)
   No diesel engine(s)/generator(s) shall be used by the stationary rock-crushing plant. If, after the issuance of this permit, the rock-crushing plant decides that it would like the option of using diesel engine(s)/generator(s), a new permit review will be required.

7. Record Keeping Requirement
   The operator(s) shall maintain all records required by this permit for not less than five (5) years and shall
SPECIAL CONDITIONS:
The permittee is authorized to construct and operate subject to the following special conditions:

make them available to any Missouri Department of Natural Resources' personnel upon request.

8. Reporting Requirement
The operator(s) shall report to the Air Pollution Control Program (APCP) Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, no later than ten (10) days after any exceedances of the limitations imposed by this permit.

9. Superseding Condition
The conditions of this permit supersede all special conditions found in the previously issued construction permit(s) (092005-019, 032002-017, 032002-017A, 032002-017B, 1296-016, 1195-028, 1087-003) from the Air Pollution Control Program.
TECHNICAL REVIEW OF APPLICATION FOR AUTHORITY TO CONSTRUCT

PROJECT DESCRIPTION

This permit review is conducted to allow the stationary rock-crushing plant, 213-P053, to operate concurrently with multiple asphalt, concrete, or rock-crushing plants. The rock-crushing plant is permitted to operate under four (4) scenarios.

- Solitary Operation: No other plants at the site.
- Concurrent, Same Owner: Concurrent operations with plants owned by Doss & Harper Stone Co., Inc.
- Concurrent, Separate Owners: Concurrent operations with plants owned by other companies.
- Concurrent, Same and Separate Owners: Concurrent operations with plants owned by Doss & Harper Stone Co., Inc. **AND** plants owned by other companies operating at the site.

Rock, composed of non-metallic minerals, is drilled/blasted, loaded into haul trucks, and transported to processing. Rock is processed through feeder(s), crusher(s), screen(s), conveyor(s), and bin(s). The processing equipment are powered with electrical power and not diesel engine(s)/generator(s). 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 Texas County, an attainment area for all criteria air pollutants.

### Table 1. Other Permits Issued for Site 213-P053

<table>
<thead>
<tr>
<th>Permit Number</th>
<th>Completed</th>
<th>Description</th>
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<tr>
<td>1087-003</td>
<td>10/15/1987</td>
<td>New portable rock-crushing plant.</td>
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<tr>
<td>1296-016</td>
<td>12/19/1996</td>
<td>Adding conveyors.</td>
</tr>
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<td>032002-017</td>
<td>3/22/2002</td>
<td>Allowing concurrent operations.</td>
</tr>
<tr>
<td>032002-017A</td>
<td>8/1/2002</td>
<td>Allowing concurrent operations.</td>
</tr>
<tr>
<td>092005-019</td>
<td>9/30/2005</td>
<td>Allowing concurrent operations and BMPs.</td>
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</table>

## 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”. Based on the conditioned potential emissions, the operation is considered a minor source under 10 CSR 10-6.060 section (6).

The rock-crushing 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 rock-crushing plant. The composite emission factor is incorporated into the monthly record keeping 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)

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<tr>
<td>PM(_{10})</td>
<td>15.0</td>
<td>81.05</td>
<td>2.69</td>
<td>81.05</td>
<td>&lt;50</td>
<td>0.0925</td>
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<tr>
<td>SOx</td>
<td>40.0</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>NOx</td>
<td>40.0</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
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<tr>
<td>VOC</td>
<td>40.0</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
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<tr>
<td>CO</td>
<td>100.0</td>
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<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>N/A</td>
<td>N/A</td>
<td>N/A</td>
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</tbody>
</table>

Note: N/A = Not Applicable; N/D = Not Determined ** Conditioned potential based on limit in permit conditions.
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 1,500 feet to the nearest property boundary. The ambient impact at this site shall not exceed the National Ambient Air Quality Standard (NAAQS) of 150 µg/m$^3$ of PM$_{10}$ at or beyond the nearest property boundary in any single 24-hour period. Since the stationary rock-crushing plant will be using 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/m$^3$ of PM$_{10}$. To ensure conformity with NAAQS, the remaining process emissions are limited to an impact of less than 130 µg/m$^3$ of PM$_{10}$ at or beyond the nearest property boundary.

The rock-crushing plant is permitted to operate under four (4) scenarios, and the daily ambient PM$_{10}$ impact recordkeeping requirements for each scenario are given below.

- **Solitary Operations:** The rock-crushing plant can operate for twenty-four (24) hours during the day and not exceed NAAQS and will not be required to track its daily ambient PM$_{10}$ impact with a record keeping sheet.
- **Concurrent, Same Owner:** The rock-crushing plant must track its daily ambient PM$_{10}$ impact and the daily ambient PM$_{10}$ impact of all concurrently operating plants owned by Doss & Harper Co., Inc.. Screening tools were used to develop an ambient impact factor for the stationary rock-crushing plant and incorporated into the daily record keeping table, Attachment A, for use in calculating PM$_{10}$ ambient impact. The daily ambient PM$_{10}$ impact from the concurrently operating plants can be obtained from the operators of these plants. The combined daily ambient PM$_{10}$ impact from all plants shall be below the limit of 130 µg/m$^3$ at or beyond the nearest property boundary.
- **Concurrent, Separate Owners:** The rock-crushing plant shall limit its daily ambient PM$_{10}$ impact to 40 µg/m$^3$ at or beyond the nearest property boundary. Screening tools were used to develop an ambient impact factor for the stationary rock-crushing plant and incorporated into the daily record keeping table, Attachment B, for use in calculating PM$_{10}$ ambient impact. The concurrently operating plants not owned by Doss & Harper Stone Co. Inc. shall be held to a combined daily ambient PM$_{10}$ impact of 90 µg/m$^3$.
- **Concurrent, Same and Separate Owners:** The rock-crushing plant must track its daily ambient PM$_{10}$ impact and the daily ambient PM$_{10}$ impact of all concurrently operating plants owned by Doss & Harper Co., Inc.. Screening tools were used to develop an ambient impact factor for the stationary rock-crushing plant and incorporated into the daily record keeping table, Attachment B, for use in calculating PM$_{10}$ ambient impact. The daily ambient PM$_{10}$ impact from the concurrently operating plants owned by Doss & Harper Co., Inc. can be obtained from the operators of these plants. The combined daily ambient PM$_{10}$ impact from all plants owned by Doss & Harper Co., Inc. shall be limited to 40 µg/m$^3$ at or beyond the nearest property boundary. The plants not owned by Doss & Harper Co., Inc. shall be allowed the remaining 90 µg/m$^3$.

**Table 3: Ambient Air Quality Impact Analysis of PM$_{10}$, 24-Hour Averaging Time**

<table>
<thead>
<tr>
<th>Operation</th>
<th>Ambient Impact Factor (µg/m$^3$/ton)</th>
<th>Modeled Impact (µg/m$^3$)</th>
<th>*Background (µg/m$^3$)</th>
<th>NAAQS (µg/m$^3$)</th>
<th>Daily Production Limit (tons)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Solitary</td>
<td>0.0245</td>
<td>117.59</td>
<td>20.00</td>
<td>150.00</td>
<td>4,800</td>
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<td>2. Concurrent, Same Owner</td>
<td>0.0245</td>
<td>**</td>
<td>20.00</td>
<td>150.00</td>
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<td>3. Concurrent, Separate Owners</td>
<td>0.0167</td>
<td>40.00</td>
<td>110.00</td>
<td>150.00</td>
<td>2,402</td>
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<tr>
<td>4. Concurrent, Same and Separate Owners</td>
<td>0.0167</td>
<td>**</td>
<td>110.00</td>
<td>150.00</td>
<td>**</td>
</tr>
</tbody>
</table>

* Background PM$_{10}$ level of 20.00 µg/m$^3$ from haul roads and stockpiles and 90.00 µg/m$^3$ from the operation of asphalt, concrete, or rock-crushing plants owned by other companies.

** The operator(s) must balance production among concurrently operating plants, with the ambient impact factors for each, such that NAAQS is not exceeded. Ambient impact from other plants owned by Doss & Harper Co., Inc. can 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 record keeping, 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
- An Operating Permit application is required for this installation within 30 days of equipment startup.
- 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
- 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

PERMIT DOCUMENTS

The following documents are incorporated by reference into this permit:

- The Application for Authority to Construct form, designating Doss & Harper Stone CO., 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.
- Southeast Regional Office Site Survey.
- Best Management Practices.
Attachment A: Daily Ambient PM$_{10}$ Impact Tracking Record
Doss & Harper Stone Co., Inc. - Houston Quarry, 213-P053 – Rock-Crushing Plant
Concurrent, Same Owner, Operation

Project Number: 2006-08-007
County, CSTR: Texas County (S17, T30N, R9W)
Primary Unit Size: 200 tph
Distance to Nearest Property Boundary: 1,500 feet

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

<table>
<thead>
<tr>
<th>Date</th>
<th>Daily Production (tons)</th>
<th>Ambient Impact Factor (µg/m$^3$/ton)</th>
<th>¹Daily PM$_{10}$ Impact (µg/m$^3$)</th>
<th>²Daily PM$_{10}$ Impact (µg/m$^3$)</th>
<th>³Daily PM$_{10}$ Impact (µg/m$^3$)</th>
<th>⁴TOTAL PM$_{10}$ Level (µg/m$^3$)</th>
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<tbody>
<tr>
<td></td>
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</table>

Note 1: The Daily PM$_{10}$ Impact (µg/m$^3$) for the stationary rock-crushing plant, 213-P053, is calculated by multiplying the Daily Production (tons) by the matching Ambient Impact Factor.

Note 2: The Daily PM$_{10}$ Impact (µg/m$^3$) for other asphalt, concrete, or rock-crushing plants owned by Doss & Harper Stone Co., Inc. can be obtained from operator(s) of these plants.

Note 3: Background PM$_{10}$ Level (µg/m$^3$) is from Haul Roads and Stockpiles.

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: Daily Ambient PM$_{10}$ Impact Tracking Record

**Doss & Harper Stone Co., Inc. - Houston Quarry, 213-P053 – Rock-Crushing Plant**

Concurrent, Separate Owner, Operations, AND Concurrent, Separate and Same Owner, Operation

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**Project Number:** 2006-08-007  
**County, CSTR:** Texas County (S17, T30N, R9W)  
**Primary Unit Size:** 200 tph  
**Distance to Nearest Property Boundary:** 1,500 feet

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

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<th>Date</th>
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**Note 1:** The Daily PM$_{10}$ Impact (µg/m$^3$) for the stationary rock-crushing plant, 213-P053, is calculated by multiplying the Daily Production (tons) by the matching Ambient Impact Factor.

**Note 2:** The Daily PM$_{10}$ Impact (µg/m$^3$) for other asphalt, concrete, or rock-crushing plants owned by Doss & Harper Stone Co., Inc. can be obtained from operator(s) of these plants. A value of zero (0) should be entered if there are no other plants owned by Doss & Harper Stone Co., Inc. at the site.

**Note 3:** Background PM$_{10}$ Level (µg/m$^3$) is from Haul Roads and Stockpiles and from the operations of asphalt, concrete, or rock-crushing plants owned by other companies.

**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 C: Monthly PM₁₀ Emissions Tracking Record

**Doss & Harper Stone Co., Inc. - Houston Quarry, 213-P053 – Rock-Crushing Plant**

- **Project Number:** 2006-08-007
- **County, CSTR:** Texas County (S17, T30N, R9W)
- **Primary Unit Size:** 200 tph
- **Distance to Nearest Property Boundary:** 1,500 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 PM₁₀ Emission Factor (lbs/ton)</th>
<th>¹Monthly PM₁₀ Emissions (lbs)</th>
<th>²Monthly PM₁₀ Emissions (tons)</th>
<th>³12-Month PM₁₀ Emissions (tons/year)</th>
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**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 eleven (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**
   - 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.
   - 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.
   - 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**
   - 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.
   - 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.
   - 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 (5) years, and the operator(s) shall make these records available to Department of Natural Resources personnel upon request.

3. **Usage of Documented Watering**
   - 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.
   - 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.)
   - 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.
   - 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.
   - 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 (5) 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 (5) 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 (5) years, and the operator(s) shall make these records available to Department of Natural Resources personnel upon request.
Mr. Wayne Ellett  
Assistant manager  
Doss & Harper Stone CO., Inc.  
P. O. Box 888  
West Plains, MO 65775  

RE: New Source Review Permit - Project Number: 2006-08-007  

Dear Mr. Ellett:

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, the New Source Review application submitted for project 2006-08-007, and your amended operating permit, if required, is necessary for continued compliance. Please review your amended operating permit, as it will contain all applicable requirements for your rock-crushing plant, including any special conditions from your New Source Review permit.

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 me at (573) 751-4817, or you may write to the Department of Natural Resources’ Air Pollution Control Program, P.O. Box 176, Jefferson City, Missouri 65102. Thank you for your attention to this matter.

Sincerely,

AIR POLLUTION CONTROL PROGRAM

Kendall B. Hale, P. E.  
New Source Review Unit Chief

KBH:cwl

Enclosures

c: Southeast Regional Office  
PAMS File: 2006-08-007  
Permit Number: