STATE OF MISSOURI

DEPARTMENT OF NATURAL RESOURCES

MISSOURI AIR CONSERVATION COMMISSION

PERMIT TO CONSTRUCT

082008-012

Permit Number: Project Number: 2008-06-009


Parent Company Address: 2320 Creve Coeur Mill Road, Maryland Heights, MO 63043

Installation Name: Iron Mountain Trap Rock

Installation Address: 1325 N. Highway NN, Iron Mountain, MO 63650

Location Information: County, S31,T35N, R4E

Construction of a new Portable Ballast (rock-crushing) Plant, with two crushers, one screen, conveyor(s), and a diesel generator. 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 are applicable to this permit.

AUG 19 2008

EFFECTIVE DATE

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. In the event that there is a discrepancy between the permit application and this permit, the conditions of this permit shall take precedence. Specifically, all air contaminant control devices shall be operated and maintained as specified in the application, associated plans and specifications.

You must notify the departments' Air Pollution Control Program of the anticipated date of start up of this (these) air contaminant sources(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)
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DEPARTMENT OF NATURAL RESOURCES
MISSOURI AIR CONSERVATION COMMISSION

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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 to the Administrative Hearing Commission (AHC), P.O. Box 1557, Jefferson City, MO 65102, as provided in RSMo 643.075.6 and 621.250.3. If you choose to appeal, you must file a petition with the AHC within 30 days after the date this decision was mailed or the date it was delivered, whichever date was earlier. If any such petition is sent by registered mail or certified mail, it will be deemed filed on the date it is mailed. If it is sent by any method other than registered mail or certified mail, it will be deemed filed on the date it is received by the AHC.

If you choose not to appeal, this certificate, the project review and your application and associated correspondence constitutes your permit to construct. The permit allows you to construct and operate your air contaminant sources(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 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 Missouri Department of Natural Resources, 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 crushing plant, (PORT-0613) Iron Mountain Trap Rock 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 crushing plant.

2. Relocation of Portable Rock Crushing Plant
   A. The portable rock crushing 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 crushing 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 (7) days prior to the relocation.
      (2) If the portable rock crushing 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 twenty-one (21) days prior to the relocation. The application must include written notification of any concurrently operating plants.

3. Record Keeping Requirement
   The operator(s) shall maintain all records required by this permit for not less than five (5) years and shall make them available to any Missouri Department of Natural Resources’ personnel upon request.

4. Usage of Wet Suppression Control System on Equipment
   A. Iron Mountain Trap Rock shall install and operate wet spray devices to restrict the emission of particulate matter. These wet spray devices must be used to control fugitive emissions whenever these units are in operation. The wet spray devices shall be installed on the following units:
      (1) EP4D – Conveyor for secondary crusher
      (2) EP4E – Conveyor to EP4F (from crusher)
      (3) EP4F – Conveyor to screen
      (4) EP4G – Underbelt from secondary crusher to EP4E
   B. Watering may be suspended during periods of freezing conditions, when use of the wet spray devices may damage the equipment. During these conditions, the operator(s) shall adjust the production rate to control fugitive emissions from these units. The operator shall record a brief description of such events in a daily log.

5. Diesel Generator
   The jaw crusher is powered by a diesel generator that shall be run only for the purpose of running this crusher.
SITE-SPECIFIC SPECIAL CONDITIONS:
The permittee is authorized to construct and operate subject to the following special conditions:

Site ID No.: 187-0006
Site Address: 1325 Highway NN, Iron Mountain, MO 63650
Site County: St. Francois County, S31, T35N, R4E

1. Best Management Practices
   Iron Mountain Trap Rock 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 Iron Mountain Trap Rock’s portable rock crushing plant (PORT-0613) 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 plant is permitted to operate under the following four colocation scenarios:
      (1) Solitary – The plant is permitted to operate when no other installations are located on site. No daily record keeping is required for this scenario.
      (2) Concurrent, Same Owners - The plant is permitted to operate when other installations owned and operated by Fred Weber or Iron Mountain Trap Rock are located on site. To demonstrate compliance, the operator(s) shall maintain a daily record of material processed. Attachment A-1, Daily Ambient PM$_{10}$ Impact Tracking Record, or other equivalent forms, will be used for this purpose.
      (3) Concurrent, Separate Owners - The plant is permitted to operate when other installations owned and operated by companies other than Fred Weber or Iron Mountain Trap Rock are located on site, as long as the combined ambient impact from such installations is limited to no more than 117.26 ug/m$^3$ in their construction permits. To demonstrate compliance, the operators shall maintain a daily record of material processed. Attachment A-2, Daily Ambient PM$_{10}$ Impact Tracking Record, or other equivalent forms, will be used for this purpose.
      (4) Concurrent, Same and Separate Owners - The plant is permitted to operate when other installations, both owned and operated by Fred Weber or Iron Mountain Trap Rock and owned and operated by companies other than Fred Weber or Iron Mountain Trap Rock are located on site, as long as the combined ambient impact from the separate-owner installations is limited to no more than 117.26 ug.m$^3$ in their construction permits. To demonstrate compliance, the operator(s) shall maintain a daily record of material processed. Attachment A-2, Daily Ambient PM$_{10}$ Impact Tracking Record, or other equivalent form(s), will be used for this purpose.

3. Annual Emission Limit of Particulate Matter Less Than Ten Microns in Diameter (PM$_{10}$)
   A. The operator(s) shall ensure that Iron Mountain Trap Rock’s portable 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 monthly record of material processed and PM$_{10}$. Attachment B, 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). Iron Mountain Trap Rock has designated the following unit(s) as the primary emission point(s) of the portable rock crushing plant: Telesmith 3055 primary crusher (EP1). 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 crushing plant, which is the Telesmith 3055 primary crusher (EP1), shall be located at least 2400 feet from the nearest property boundary whenever it is operating at this site.
SITE-SPECIFIC SPECIAL CONDITIONS:
The permittee is authorized to construct and operate subject to the following special conditions:

6. Record Keeping Requirement
The operator(s) shall maintain all records required by this permit for not less than five (5) years and shall make them available 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 (10) days after any exceedances of the limitations imposed by this permit.
PROJECT DESCRIPTION

Rock, composed of non-metallic minerals, is hauled to the plant from the existing mine, crushed (with one primary and one secondary crusher), screened with one screen, stored in storage piles, and hauled off-site. The jaw crusher is powered with a diesel generator. The main type of rock expected to be processed is rhyolite. 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 St. Francois County, an attainment area for all criteria air pollutants.

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 portable 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 portable rock crushing plant. The composite emission factor is incorporated into the monthly record keeping table, Attachment B. 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>
<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>57.10</td>
<td>&lt;50</td>
<td>0.03259</td>
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<td>SOx</td>
<td>40.0</td>
<td>N/A</td>
<td>N/A</td>
<td>4.62</td>
<td>4.02</td>
<td>N/A</td>
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<tr>
<td>NOx</td>
<td>40.0</td>
<td>N/A</td>
<td>N/A</td>
<td>70.19</td>
<td>61.46</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>5.73</td>
<td>4.99</td>
<td>N/A</td>
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<tr>
<td>CO</td>
<td>100.0</td>
<td>N/A</td>
<td>N/A</td>
<td>15.12</td>
<td>13.15</td>
<td>N/A</td>
</tr>
<tr>
<td>HAPs</td>
<td>10.0/25.0</td>
<td>N/A</td>
<td>N/A</td>
<td>0.06</td>
<td>0.05</td>
<td>N/A</td>
</tr>
</tbody>
</table>

Note: N/A = Not Applicable; N/D = Not Determined
** Conditioned potential based on voluntary limit. 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 at a distance of 2400 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. The plant’s ambient impact factor is incorporated into the daily record keeping tables:

- Attachment A-1 for concurrent, same owner operations;
- Attachment A-2 for concurrent separate owner operation; and
- Attachment A-2 for concurrent, same and separate owners operations.
- No such record keeping is required for solitary operation.

An ambient background level of PM$_{10}$ from the operation of other installations potentially on-site is included in Attachment A-2.
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.

Table 2: 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>0.0013</td>
<td>12.7</td>
<td>20.0</td>
<td>150.0</td>
<td>N/A</td>
</tr>
<tr>
<td>2. Concurrent, Same Owner</td>
<td>0.0013</td>
<td>12.7</td>
<td>20.0</td>
<td>150.0</td>
<td>**</td>
</tr>
<tr>
<td>3. Concurrent, Separate Owners</td>
<td>0.0013</td>
<td>12.7</td>
<td>137.3</td>
<td>150.0</td>
<td>N/A</td>
</tr>
<tr>
<td>4. Concurrent, Same and Separate Owners</td>
<td>0.0013</td>
<td>12.7</td>
<td>137.3</td>
<td>150.0</td>
<td>**</td>
</tr>
</tbody>
</table>

* Background PM₁₀ level of 20.0 µg/m³ from haul roads and stockpiles and 117.3 µg/m³ from the operation of other installations.

** The operator(s) must balance production among concurrently operating plants, with the ambient impact factors for each, such that NAAQS is not exceeded. Other ambient impact factors are to be listed in Attachments A-1 and A-2.

Since the potential emission of NOx is above de minimis, the ambient impact was modeled for NOx using SCREEN3. It was found to not exceed the NAAQS for NOx as shown in the table below.

Table 3: Ambient Impact Analysis for Non-PM₁₀ Emissions

<table>
<thead>
<tr>
<th>Pollutant</th>
<th>Modeled Impact (µg/m³)</th>
<th>NAAQS Time Period</th>
<th>Allowable Exceedance</th>
</tr>
</thead>
<tbody>
<tr>
<td>NOx</td>
<td>5.252</td>
<td>100 Annual average</td>
<td>None</td>
</tr>
</tbody>
</table>

APPPLICABLE 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
- No Operating Permit is required for this portable rock crushing plant.
- If this portable rock crushing plant remains at the initial site reviewed in this permit longer than 24 consecutive months, then the owner shall submit an Operating Permit Application. The Air Pollution Control Program must receive this application no later than 30 days after the exceedance of 24 months.
- 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 10-3.080
- 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.
- 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.

Jeannie Kozak        Date
Environmental Engineer
PERMIT DOCUMENTS

The following documents are incorporated by reference into this permit:

- The Application for Authority to Construct form, designating Fred Weber, 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.
Attachment A-1: Daily Ambient PM$_{10}$ Impact Tracking Record
Iron Mountain Trap Rock, PORT-0613 – Portable Rock Crushing Plant
Use for Concurrent, Same Owner Operations.

Project Number: 2008-06-009
County, CSTR: St. Francois County (S31, T35N, R4E)
Primary Unit Size: 400 tph
Distance to Nearest Property Boundary: 2400 feet

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

<table>
<thead>
<tr>
<th>Date</th>
<th>Iron Mountain Trap Rock PORT-0613 Project # 2008-06-009</th>
<th>Plant Name: Plant ID: Permit #:</th>
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<th>Plant Name: Plant ID: Permit #:</th>
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</thead>
<tbody>
<tr>
<td>Example</td>
<td>Daily Production (tons)</td>
<td>Ambient Impact Factor (µg/m$^3$ton)</td>
<td>Daily Production (tons)</td>
<td>Ambient Impact Factor (µg/m$^3$ton)</td>
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<td></td>
<td>9,600</td>
<td>0.00133</td>
<td>12.7</td>
<td>10,000</td>
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<td>20.0</td>
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</table>

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

Note 2: Background PM$_{10}$ Level (µg/m$^3$) is from Haul Roads and Stockpiles.

Note 3: 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 A-2: Daily Ambient PM$_{10}$ Impact Tracking Record

**Iron Mountain Trap Rock, PORT-0613 – Portable Rock Crushing Plant**

**Use for (1) Concurrent, Separate Owner Operations & (2) Concurrent, Same and Separate Owner Operations.**

**Project Number:** 2008-06-009  
**County, CSTR:** St. Francois County (S31, T35N, R4E)  
**Primary Unit Size:** 400 tph  
**Distance to Nearest Property Boundary:** 2400 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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<th>Plant Name: Plant ID: Permit #:</th>
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<th>Plant Name: Plant ID: Permit #:</th>
<th>²Back-ground PM$_{10}$ Level (µg/m$^3$)</th>
<th>³TOTAL PM$_{10}$ Level (µg/m$^3$)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Example</td>
<td>Daily Production (tons) 9,600</td>
<td>Ambient Impact Factor (µg/m$^3$/ton) 0.00133</td>
<td>Daily Production (tons) 12.7</td>
<td>Ambient Impact Factor (µg/m$^3$/ton) N/A</td>
<td>Daily Production (tons) N/A</td>
<td>Ambient Impact Factor (µg/m$^3$/ton) N/A</td>
</tr>
<tr>
<td></td>
<td>0.00133</td>
<td>12.7</td>
<td>N/A</td>
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**Note 1:** The Daily PM$_{10}$ Impact (µg/m$^3$) for each plant is calculated by multiplying the Daily Production (tons) by the matching Ambient Impact Factor.

**Note 2:** Background PM$_{10}$ Level (µg/m$^3$) is from other installations not owned and operated by Fred Weber or Iron Mountain Trap Rock, Haul Roads and Stockpiles.

**Note 3:** 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\textsubscript{10} Emissions Tracking Record
Iron Mountain Trap Rock, PORT-0613 – Portable Rock Crushing Plant

Project Number: 2008-06-009
County, CSTR: St. Francois County (S31, T35N, R4E)
Primary Unit Size: 400 tph
Distance to Nearest Property Boundary: 2400 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\textsubscript{10} Emission Factor (lbs/ton)</th>
<th>(^1)Monthly PM\textsubscript{10} Emissions (lbs)</th>
<th>(^2)Monthly PM\textsubscript{10} Emissions (tons)</th>
<th>(^3)12-Month PM\textsubscript{10} 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 –
   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 (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 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 (5) years, and the operator(s) shall make these records available to Department of Natural Resources personnel upon request.

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. Joe Elbl  
Asst. Environmental Manager  
Fred Weber, Inc.  
2320 Creve Coeur Mill Road  
Maryland Heights, MO 63043  

RE: New Source Review Permit - Project Number: 2008-06-009  

Dear Mr. Elbl:  

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 2008-06-009, 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 portable 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 Jeannie Kozak at the departments’ Air Pollution Control Program, P.O. Box 176, Jefferson City, MO 65102 or by telephone at (573) 751-4817. Thank you for your time and attention to this matter.  

Sincerely,  

AIR POLLUTION CONTROL PROGRAM  

Kendall B. Hale  
New Source Review Unit Chief  

KBH:jkk  

Enclosures  

c: Southeast Regional Office  
PAMS File: 2008-06-009  

Permit Number: