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: 032015-009  Project Number: 2014-08-032
Installation Number: 187-0006

Parent Company Address: 2320 Creve Coeur Mill Road, Maryland Heights, MO 63043
Installation Name: Iron Mountain Trap Rock
Installation Address: 1325 Highway NN, Iron Mountain, MO 63650
Location Information: St. Francois County, S31, T35N, R4E

Application for Authority to Construct was made for:
The installation of a new stationary rock crushing plant. 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.

MAR 1 O 2015

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 Department’s Air Pollution Control Program of the anticipated date of start up of these air contaminant sources. The information must be made available within 30 days of actual startup. 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 these air contaminant sources.

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.
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) and by the Missouri Rules listed in Title 10, Division 10 of the Code of State Regulations (specifically 10 CSR 10-6.060). For specific details regarding conditions, see 10 CSR 10-6.060 paragraph (12)(A)10. “Conditions required by permitting authority.”

Iron Mountain Trap Rock
St. Francois County, S31, T35N, R4E

1. Best Management Practices Requirement
   Iron Mountain Trap Rock shall control fugitive emissions from all of the haul roads and vehicular activity areas at this site by performing BMPs as defined in Attachment AA.

2. Emission Limitation - NAAQS
   A. Iron Mountain Trap Rock shall maintain a daily record of material processed to demonstrate that the daily impact on ambient air quality from the entire installation (see Table 3) does not exceed the 24-hour NAAQS of 150.0 µg/m³ for PM₁₀ at or beyond the property boundary.
   B. Attachment A or an equivalent form, such as an electronic form, approved by the Air Pollution Control Program shall be used to demonstrate compliance with Special Condition 2.A.
   C. Iron Mountain Trap Rock shall account for the impacts from other sources of PM₁₀ as instructed in the attachments.

3. Emission Limitation – PM₂.₅
   A. Iron Mountain Trap Rock shall emit less than 10.0 tons per year PM₂.₅ in any 12 month period from the entire installation.
   B. Iron Mountain Trap Rock shall demonstrate compliance with Special Condition 3.A. using Attachment B or another equivalent form that has been approved by the Air Pollution Control Program, including an electronic form.
SPECIAL CONDITIONS:

The permittee is authorized to construct and operate subject to the following special conditions:

4. Control Device Requirement - Baghouse
   A. Iron Mountain Trap Rock shall control emissions from the following equipment using baghouses as specified in the permit application.
      1) #6 Residual Oil-Fired Granule Dryer, EP-7
      2) Fine Screen, EP-8
      3) Conveyors, EP-4
   B. The baghouse shall be operated and maintained in accordance with the manufacturer’s specifications. The baghouse shall be equipped with a gauge or meter, which indicates the pressure drop across the control device. These gauges or meters shall be located such that Department of Natural Resources’ employees may easily observe them.
   C. Replacement filters for the baghouse shall be kept on hand at all times. The bags shall be made of fibers appropriate for operating conditions expected to occur (i.e. temperature limits, acidic and alkali resistance, and abrasion resistance).
   D. Iron Mountain Trap Rock shall monitor and record the operating pressure drop across the baghouse at least once every 24 hours. The operating pressure drop shall be maintained within the design conditions specified by the manufacturer's performance warranty.
   E. Iron Mountain Trap Rock shall maintain a copy of the baghouse manufacturer’s performance warranty on site.
   F. Iron Mountain Trap Rock shall maintain an operating and maintenance log for the baghouse which shall include the following:
      1) Incidents of malfunction, with impact on emissions, duration of event, probable cause, and corrective actions; and
      2) Maintenance activities, with inspection schedule, repair actions, and replacements, etc.

5. Combustion Fuel Limitations
   The residual waste oil-fired dryer (EP-7) is the only permitted combustion equipment of this application. The only fuels permitted for use with this dryer are waste-oil fuels containing 0.5 percent (%) sulfur, or less, by weight.

6. Concurrent Operations
   Iron Mountain Trap Rock is currently prohibited from concurrently operating with
SPECIAL CONDITIONS:
The permittee is authorized to construct and operate subject to the following special conditions:

separate owner plants.

7. Record Keeping and Reporting Requirements
   A. Iron Mountain Trap Rock 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.

   B. Iron Mountain Trap Rock shall report to the Air Pollution Control Program’s Compliance/Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, no later than 10 days after the end of the month during which any record required by this permit show an exceedance of a limitation imposed by this permit.
REVIEW OF APPLICATION FOR AUTHORITY TO CONSTRUCT AND OPERATE
SECTION (6) REVIEW
Project Number: 2014-08-032
Installation ID Number: 187-0006
Permit Number:
Iron Mountain Trap Rock
1325 Highway NN
Iron Mountain, MO 63650
Parent Company:
Fred Weber, Inc.
2320 Creve Coeur Mill Road
Maryland Heights, MO 63043
St. Francois County, S31, T35N, R4E

REVIEW SUMMARY

- Iron Mountain Trap Rock has applied for authority to construct. The construction will include a secondary crusher, conveyors/stackers, and a #6 residual waste oil-fired granule dryer. The remaining power will be supplied by electric power lines near the facility.

- HAP emissions below screen modeling action levels are expected from the dryer emission unit (EP-7).


- New Source Performance Standards – Subpart UUU, Standards of Performance for Calciners and Dryers in Mineral Industries, applies to this installation.

- None of the NESHAPs apply to this installation. None of the currently promulgated MACT regulations apply to the proposed equipment.

- Fabric filters (baghouses) are used for the conveyors/stackers (EP-4), #6 residual waste oil-fired granule dryer (EP-7), and screening unit (EP-8) to control the particulate matter emissions from this equipment.

- This review was conducted in accordance with Section (6) of Missouri State Rule 10 CSR 10-6.060, Construction Permits Required. Potential emissions of PM$_{2.5}$ have been conditioned below de minimis levels; limiting PM$_{2.5}$ emissions indirectly limits all other pollutants, except for particulate matter and PM$_{10}$, under the de minimis levels. Particulate matter emissions are above the de minimis threshold, but under the major source threshold.
- This installation is located in St. Francois County, an attainment area for all criteria pollutants.

- This installation is not on the List of Named Installations found in 10 CSR 10-6.020(3)(B), Table 2. The installation's major source level is 250 tons per year and fugitive emissions are not counted toward major source applicability.

- Ambient air quality modeling was performed to determine the ambient impact of PM$_{10}$.

- Emissions testing is required only where noted by applicable NSPS standards; additional emissions testing is not required for the equipment in this construction permit.

- The existing operating permit must be modified accordingly for this installation to remain in compliance. An operating permit application is currently under review by the Missouri Air Pollution Control Program; inclusion of the emissions calculations from the application in construction permit (project #2014-08-032) in the installation-wide potential emission calculations will be accounted for once the final draft of this permit has been issued. 

> It is Iron Mountain Trap Rock’s responsibility to submit the new information using proper submittal forms to the Missouri Air Pollution Control Program, Operating Permits Unit once the permit has been issued.

- Approval of this permit is recommended with special conditions.

**INSTALLATION DESCRIPTION**

Iron Mountain Trap Rock primarily processes trap rock in order to produce a high quality product and fulfill sale orders for purchasing customers. There is currently one existing plant at this site—a stationary rock crushing plant. The addition of another rock crushing plant will allow for Iron Mountain Trap Rock to increase production of specifically formulated final products in order to meet the dynamic demands of their customers. This permit applies to a new stationary secondary rock crushing plant that will be owned and operated by Iron Mountain Trap Rock and located at the same site, ID: 187-0006. Currently, there is an intermediate operating permit associated with this installation and a basic operating permit application is under review by Missouri Air Pollution Control Program.

Table 1 summarizes the New Source Review permits that have been issued to Iron Mountain Trap Rock from the Missouri Air Pollution Control Program.

**Table 1: Permit History**

<table>
<thead>
<tr>
<th>Permit Number</th>
<th>Description</th>
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<td>0498-010</td>
<td>Portable to Stationary</td>
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<tr>
<td>0299-003</td>
<td>Add Equipment</td>
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<tr>
<td>072001-014</td>
<td>Add Equipment</td>
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<tr>
<td>012006-008</td>
<td>Add Equipment &amp; BMPs</td>
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<td>Permit Number</td>
<td>Description</td>
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<td>--------------------------------------------------</td>
</tr>
<tr>
<td>102006-007</td>
<td>Add Equipment</td>
</tr>
<tr>
<td>102006-007A</td>
<td>Amend Emissions Calculations</td>
</tr>
<tr>
<td>082008-012</td>
<td>New Portable Ballast Plant</td>
</tr>
<tr>
<td>072009-019</td>
<td>Add Conveyors</td>
</tr>
<tr>
<td>102006-007B</td>
<td>Amend Emissions Calculations</td>
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<tr>
<td>082008-012A</td>
<td>Extend 2-Year Limit</td>
</tr>
<tr>
<td>082011-005</td>
<td>Portable to Stationary (Rock Crushing Plant)</td>
</tr>
<tr>
<td>082014-006</td>
<td>Temporary Ballast Plant Modification</td>
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</tbody>
</table>

**PROJECT DESCRIPTION**

The operation will involve unloading rock fragments with a moisture content of at least [XXX] by weight into a designated bin and conveying the rock to a rock crusher. There will not be a reoccurring testing requirement (included in this permit) to demonstrate [XXX] moisture content by weight because the most recent series of tests occurred at this site within the past year; Missouri Air Pollution Control Program still reserves the right to require moisture content testing at any time, provided reasonable notice is given to Iron Mountain Trap Rock. Rock is dried, crushed, screened, and conveyed to storage silos, and then shipped out when an order is placed. There are baghouses in place to reduce emissions from the granule dryer, fine materials screen (fine screen), and associated conveyors. The haul roads and vehicular activity areas undergo documented watering BMPs to reduce particulate matter emissions from these fugitive sources.

**EMISSIONS/CONTROLS EVALUATION**


Table 2 provides an emissions summary for this project. Existing potential emissions were taken from construction permit 082011-005. Existing actual emissions were taken from the installation’s 2013 EIQ. Potential emissions of the application represent the potential of the new equipment, assuming continuous operation (8760 hours per year). Conditioned potential emissions of the application are the calculated emissions that are limited by the annual PM$_{2.5}$ de minimis limits, solely pertaining to this construction permit. PM$_{2.5}$ emissions needed to be limited because the potential to emit for this application was higher than the de minimis threshold; in choosing a voluntary limit, the remaining pollutants (less PM and PM$_{10}$) were limited under the respective modeling limits and NAAQS modeling was not required.
Table 2: Emissions Summary (tons per year)

<table>
<thead>
<tr>
<th></th>
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<tr>
<td>PM</td>
<td>25.0</td>
<td>69.17</td>
<td>N/D</td>
<td>48.06</td>
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<td>PM\textsubscript{10}</td>
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<td>11.1927</td>
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<td>SO\textsubscript{x}</td>
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<td>4.62</td>
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<td>45.84</td>
<td>32.59</td>
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<td>40.0</td>
<td>70.19</td>
<td>N/A</td>
<td>32.12</td>
<td>22.83</td>
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<td>VOC</td>
<td>40.0</td>
<td>5.73</td>
<td>N/A</td>
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<td>N/A</td>
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<td>2.08</td>
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<td>GHG (mass)</td>
<td>0.0 / 100.0 / 250.0</td>
<td>N/D</td>
<td>N/A</td>
<td>96.70</td>
<td>87.03</td>
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<tr>
<td>HAPs</td>
<td>10.0/25.0</td>
<td>0.06</td>
<td>N/A</td>
<td>0.35</td>
<td>0.25</td>
</tr>
</tbody>
</table>

N/A = Not Applicable; N/D = Not Determined

PERMIT RULE APPLICABILITY

This review was conducted in accordance with Section (6) of Missouri State Rule 10 CSR 10-6.060, Construction Permits Required. Potential emissions of PM\textsubscript{2.5} have been conditioned below de minimis levels; limiting PM\textsubscript{2.5} emissions indirectly limits all other pollutants, except for particulate matter and PM\textsubscript{10}, under the de minimis levels. Particulate matter emissions are above the de minimis threshold, but under the major source threshold.

APPLICABLE REQUIREMENTS

Iron Mountain Trap Rock shall comply with the following applicable requirements. The Missouri Air Conservation Laws and Regulations should be consulted for specific record keeping, monitoring, and reporting requirements. Compliance with these emission standards, based on information submitted in the application, has been verified at the time this application was approved. For a complete list of applicable requirements for your installation, please consult your operating permit.

GENERAL REQUIREMENTS

- Submission of Emission Data, Emission Fees and Process Information, 10 CSR 10-6.110
- Operating Permits, 10 CSR 10-6.065; an application for a basic operating permit has been received and is currently under review by Missouri Department of Natural Resources—Air Pollution Control Program, Operating Permits Unit.
- Restriction of Particulate Matter to the Ambient Air Beyond the Premises of Origin, 10 CSR 10-6.170
AMBIENT AIR QUALITY IMPACT ANALYSIS

An ambient air quality impact analysis (AAQIA) was performed to determine the impact of the pollutants listed in Table 3. The Air Pollution Control Program requires an AAQIA of PM$_{10}$ for all asphalt, concrete and rock-crushing plants regardless of the level of PM$_{10}$ emissions if a permit is required. An AAQIA is required for other pollutants if their emissions exceed their respective de minimis or screening model action level (SMAL). The AAQIA was performed using the Air Pollution Control Program’s generic nomographs and when appropriate the EPA modeling software AERSCREEN. For each pollutant that was modeled, the maximum concentration that occurs at or beyond the site boundary was compared to the NAAQS or RAL for the pollutant. If during continuous operation the modeled concentration of a pollutant is greater than the applicable NAAQS or RAL, the plant’s production is limited to ensure compliance with the standard.

Iron Mountain Trap Rock is responsible for balancing and documenting production between all operational plants and emission units in order to stay in compliance with the installation-wide 24-hour NAAQS limit of 150.0 micrograms per cubic meter for PM$_{10}$. Haul road and vehicular activity area BMPs allow for the fugitive emissions from all sources to be estimated as a flat background concentration of 20.0 micrograms per cubic meter; this leaves a remaining allowable portion of 130.0 micrograms per cubic meter to be divided among the rest of the installation as production needs dictate.

Table 3 illustrates the limited impact of this plant on same owner or solitary operating scenarios. Background ambient air quality impact for a concurrently operational separate owner plant scenario is significantly higher due to previous permit limitations allowing an allotted emission concentration of 86.53 micrograms per cubic meter for separate owner plants located at site 187-0006. As of this permit application, project #2014-08-032, concurrent operations with separate owner plants are not permitted. If separate owner plants seek to relocate to this site owned by Iron Mountain Trap Rock, the operating permit and all necessary construction permits shall be reviewed and amended prior to concurrent operations; furthermore, the ambient air quality impact for all plants shall be tracked on a sheet that has been approved by Missouri Air Pollution Control Program.
Table 3: Ambient Air Quality Impact Analysis

<table>
<thead>
<tr>
<th>Pollutant</th>
<th>aNAAQS (µg/m³)</th>
<th>Averaging Time</th>
<th>bMaximum Modeled Impact (µg/m³)</th>
<th>Limited Impact (µg/m³)</th>
<th>Background (µg/m³)</th>
<th>cDaily Limit (tons/day)</th>
</tr>
</thead>
<tbody>
<tr>
<td>PM₁₀ (solitary/same)</td>
<td>150.0</td>
<td>24-hour</td>
<td>177.64</td>
<td>130.0</td>
<td>20.0</td>
<td>N/A</td>
</tr>
</tbody>
</table>

N/A = Not Applicable

aNational Ambient Air Quality Standards (NAAQS).
bModeled impact at maximum capacity with controls.
cIndirect limit based on compliance with NAAQS.
dSolitary operation or operation with other plants that are owned by Iron Mountain Trap Rock.

ALLOWABLE OPERATING SCENARIOS

- Iron Mountain Trap Rock is not permitted to concurrently operate with separate owner plants.
- Prior to concurrent operations with separate owner plants, Iron Mountain Trap Rock must seek approval from Missouri Air Pollution Control Program.

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 Ambient Air Impact Limitation (NAAQS) special conditions.

________________________________  _________________________________
Jordan Hindman Date
New Source Review Unit

PERMIT DOCUMENTS

The following documents are incorporated by reference into this permit:

- The Application for Authority to Construct form, dated August 11, 2014, received August 18, 2014, designating Fred Weber, Inc. as the owner and operator of the installation.
### Attachment A – Daily Ambient Air Quality Impact (NAAQS) Tracking Sheet

**Iron Mountain Trap Rock**  
**Installation ID:** 187-0006  
**St. Francois County, T35N, R04E, S31**  
**Project Number:** 2014-08-032  
**Permit Number:**

This sheet covers the period from __________ to __________.

<table>
<thead>
<tr>
<th>Date</th>
<th>Daily Production (tons)</th>
<th>Impact Factor(^3) (µg/m(^3)ton)</th>
<th>Impact(^1) (µg/m(^3))</th>
<th>Daily Production (tons)</th>
<th>Impact Factor (µg/m(^3)ton)</th>
<th>Impact(^2) (µg/m(^3))</th>
<th>Back-ground (µg/m(^3))</th>
<th>Total Impact(^2) (µg/m(^3))</th>
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<tbody>
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</tr>
</tbody>
</table>

1. Calculate the impact for 187-0006 by multiplying daily production of the main plant, and secondary crushing plant by the respective impact factor.

2. Calculate the total impact by summing the necessary impact and background concentrations. A site-wide total of 150 µg/m\(^3\), or less, is necessary for compliance.

3. Impact Factors were taken from the existing data determined for, and used in, permit 082011-005.
Attachment B – Annual PM$_{2.5}$ Emissions Tracking Sheet

**Iron Mountain Trap Rock**  
**Installation ID:** 187-0006  
**St. Francois County, T35N, R04E, S31**  
**Project Number:** 2014-08-032  
**Permit Number:**  

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

<table>
<thead>
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<th>Month</th>
<th>Production (tons)</th>
<th>Emission Factor (lb/ton)</th>
<th>Monthly Emissions$^1$ (lbs)</th>
<th>Monthly Emissions$^2$ (tons)</th>
<th>12-Month Total Emissions$^3$ (tons)</th>
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<tbody>
<tr>
<td>Example</td>
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<td>1926</td>
<td>0.96</td>
<td>&lt; 40.00</td>
</tr>
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<td>0.0321</td>
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$^1$Multiply the monthly production by the emission factor.  
$^2$Divide the monthly emissions (lbs) by 2000.  
$^3$Add the monthly emissions (tons) to the sum of the monthly emissions from the previous eleven months. A total of less than 10.0 of PM$_{2.5}$ is necessary for compliance.
Attachment AA: Best Management Practices

Haul roads and vehicular activity areas shall be maintained in accordance with at least one of the following options when the portable plant is operating.

1. Pavement
   A. The operator shall pave the area with materials such as asphalt, concrete or other materials approved by the Air Pollution Control Program. The pavement will be applied in accordance with industry standards to achieve control of fugitive emissions\(^1\) while the plant is operating.
   B. Maintenance and 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 shall periodically wash or otherwise clean all of the paved portions of the haul roads as necessary to achieve control of fugitive emissions from these areas while the plant is operating.

2. Application of Chemical Dust Suppressants
   A. The operator shall apply a chemical dust suppressant (such as magnesium chloride, calcium chloride, lignosulfonates, etc.) to unpaved areas.
   B. The quantities of the chemical dust suppressant shall be applied and maintained in accordance with the manufacturer’s recommendation (if available) and in sufficient quantities to achieve control of fugitive emissions from these areas while the plant is operating.
   C. The operator 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 shall keep these records with the plant for not less than five (5) years and make these records available to Department of Natural Resources’ personnel upon request.

3. Application of Water-Documented Daily
   A. The operator shall apply water to unpaved areas. Water shall be applied at a rate of 100 gallons per day per 1,000 square feet of unpaved or untreated surface area while the plant is operating.
   B. Precipitation may be substituted for watering if the precipitation is greater than one quarter of one inch and is sufficient to control fugitive emissions.
   C. 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.
   D. The operator shall record the date and volume of water application or the amount of precipitation that day. The operators shall also record the rational for not watering (e.g. freezing conditions or not operating).
   E. The operator shall keep these records with the plant for not less than five (5) years, and the operator 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.)
APPENDIX A

Abbreviations and Acronyms

% ............ percent
°F ............ degrees Fahrenheit
acfm ......... actual cubic feet per minute
BACT ...... Best Available Control Technology
BMPs ...... Best Management Practices
Btu......... British thermal unit
CAM ....... Compliance Assurance Monitoring
CAS ........ Chemical Abstracts Service
CEMS ..... Continuous Emission Monitor System
CFR .......... Code of Federal Regulations
CO .......... carbon monoxide
CO₂ ......... carbon dioxide
CO₂e ....... carbon dioxide equivalent
COMS ..... Continuous Opacity Monitoring System
CSR .......... Code of State Regulations
dscf ........ dry standard cubic feet
EIQ .......... Emission Inventory Questionnaire
EP .......... Emission Point
EPA ....... Environmental Protection Agency
EU .......... Emission Unit
fps .......... feet per second
ft ............ feet
GACT ...... Generally Available Control Technology
GHG .......... Greenhouse Gas
gpm ........ gallons per minute
gr ............ grains
GWP ......... Global Warming Potential
HAP ......... Hazardous Air Pollutant
hr .......... hour
hp ........... horsepower
lb ............ pound
lbs/hr ....... pounds per hour
MACT ...... Maximum Achievable Control Technology
µg/m³ ....... micrograms per cubic meter
m/s .......... meters per second
Mgal ....... 1,000 gallons
MW ........ megawatt
MHDR ....... maximum hourly design rate
MMBtu .... Million British thermal units
MMCF ....... million cubic feet
MSDS ....... Material Safety Data Sheet
NAAQS ...... National Ambient Air Quality Standards
NESHAPs National Emissions Standards for Hazardous Air Pollutants
NOₓ ........ nitrogen oxides
NSPS ...... New Source Performance Standards
NSR ......... New Source Review
PM .......... particulate matter
PM₂.₅ ....... particulate matter less than 2.5 microns in aerodynamic diameter
PM₁₀ ....... particulate matter less than 10 microns in aerodynamic diameter
ppm .......... parts per million
PSD .......... Prevention of Significant Deterioration
PTE ........ potential to emit
RACT ...... Reasonable Available Control Technology
RAL ......... Risk Assessment Level
SCC .......... Source Classification Code
scfm .......... standard cubic feet per minute
SDS .......... Safety Data Sheet
SIC ......... Standard Industrial Classification
SIP ......... State Implementation Plan
SMAL ...... Screening Model Action Levels
SOₓ ........ sulfur oxides
SO₂ ........ sulfur dioxide
tph .......... tons per hour
tpy .......... tons per year
VMT .......... vehicle miles traveled
VOC .......... Volatile Organic Compound
Ms. Lina Klein  
Environmental Director  
Iron Mountain Trap Rock  
2320 Creve Coeur Mill Road  
Maryland Heights, MO 63043  

RE: New Source Review Permit - Project Number: 2014-08-032  

Dear Ms. Klein:  

Enclosed with this letter is your permit to construct. Please study it carefully and refer to Appendix A for a list of common abbreviations and acronyms used in the permit. Also, note the special conditions on the accompanying pages. The document entitled, "Review of Application for Authority to Construct," is part of the permit and should be kept with this permit in your files. Operation in accordance with these conditions, your new source review permit application, and your amended operating permit is necessary for continued compliance. 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 were adversely affected by this permit decision, you may be entitled to pursue an appeal before the administrative hearing commission pursuant to Sections 621.250 and 643.075.6 RSMo. To appeal, you must file a petition with the administrative hearing commission within thirty 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 administrative hearing commission, whose contact information is: Administrative Hearing Commission, Truman State Office Building, P.O. Box 1557, Jefferson City, MO 65102, www.oa.mo.gov/ahc.  

If you have any questions regarding this permit, please do not hesitate to contact Jordan Hindman, at the Department of Natural Resources’ Air Pollution Control Program, P.O. Box 176, Jefferson City, MO 65102.  

Sincerely,  

AIR POLLUTION CONTROL PROGRAM  

Susan Heckenkamp  
New Source Review Unit Chief  

SH:jhl  

Enclosures  

c: Southeast Regional Office  
PAMS File: 2014-08-032  
Permit Number: