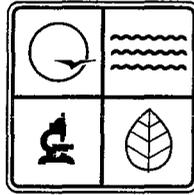


STATE OF MISSOURI
DEPARTMENT OF NATURAL RESOURCES

MISSOURI AIR CONSERVATION COMMISSION



PERMIT BOOK

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: **042007-008** Project Number: **2006-12-064**
059-0021
Owner: **T&M Stone Quarry, L.L.C.**
Owner's Address: **530 E. 460th Road, Fair Play, MO 65649**
Installation Name: **T&M Stone Quarry, L.L.C. - Buffalo Quarry Stationary Plant**
Installation Address: **10070 State Hwy. 38, Buffalo, MO 65622**
Location Information: **Dallas County, S3/4, T32N, R20W**

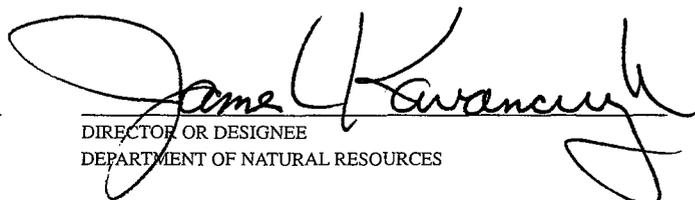
Application for Authority to Construct was made for:

The construction of a new stationary rock crushing plant. The rock crushing plant is a Generic Plant. Rock is processed through no more than 4 crushers, 5 screens, 1 pug mill, and 30 conveyors/bins, with no more than 3 diesel engines. The rock crushing plant has a maximum hourly design rate (MHDR) of 500 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 (5), 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.

APR 11 2007

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. 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.

2006-12-064
059-0021

T&M Stone Quarry, L.L.C.

530 E. 460th Road, Fair Play, MO 65649

T&M Stone Quarry, L.L.C. - Buffalo Quarry Stationary Plant

10070 State Hwy. 38, Buffalo, MO 65622

Dallas County, S3/4, T32N, R20W

The construction of a new stationary rock crushing plant. The rock crushing plant is a Generic Plant. Rock is processed through no more than 4 crushers, 5 screens, 1 pug mill, and 30 conveyors/bins, with no more than 3 diesel engines. The rock crushing plant has a maximum hourly design rate (MHDR) of 500 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 (5), Missouri State Rule 10 CSR 10-6.060, *Construction Permits Required*.

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Permit No.	042007-008
Project No.	2006-12-064

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.

Equipment Type	Maximum Combined Hourly Design Rate	Maximum Number of Units
Primary Unit(s) (Primary Crusher)	500 tons per hour	1
Feeder/Grizzly	N/A (not in calculations)	N/A
Crusher(s) including primary crusher	1,700 tons per hour	4
Conveyor(s), Stacker(s), Storage Bin(s)	12,000 tons per hour	30
Screen(s)	500 tons per hour	4
Pugmill	500 tons per hour	1
Diesel Engines	2,000 horsepower	3
Wet Screening	N/A (not in calculations)	N/A

1. Generic Plant Equipment Identification Requirement
 - A. Within fifteen (15) days of actual startup, T&M Stone Quarry, L.L.C. shall submit to the Air Pollution Control Program's Permitting Section, and the Northeast Regional Office, the following information for the generic plant (059-0021):
 - 1.) A Master List of all equipment that will be permitted for use with the generic plant (059-0021). This master list shall include the following information for each piece of equipment. The manufacturer's name, the model number, the serial number, the actual MHDR, the date of manufacture, any company-assigned equipment number, and any other additional information such as sizes and/or dimensions that is necessary to uniquely identify all of the equipment.
 - 2.) A list of the core equipment that will always be utilized with the generic plant (059-0021). The core equipment associated with the generic plant shall include at least one (1) primary unit. Core equipment items are rate-controlling components of the process flow (e.g., primary crusher and/or primary screen). The maximum hourly design rate of the generic plant is defined to be the sum of the MHDR(s) of the core equipment. Any arrangement of the generic plant's equipment must be such that the core equipment is not bypassed in the process flow.
 - 3.) A determination on the applicability of 40 CFR Part 60, Subpart "OOO", *Standards of Performance for Nonmetallic Mineral Processing Plants*, for each piece of equipment. T&M Stone Quarry, L.L.C. shall indicate whether or not each piece of equipment is subject to Subpart "OOO" and provide the justification for this applicability determination.
 - 4.) T&M Stone Quarry, L.L.C. shall submit notification to the Air Pollution Control Program and the Regional Office if the core equipment is changed and/or if new equipment is added to the supplemental equipment list.
 - B. To assure that each piece of equipment is properly identified as being a part of this generic stationary rock crushing plant (059-0021), T&M Stone Quarry, L.L.C. 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 and the Regional Office no later than fifteen (15) days after start-up of the generic plant.
 - C. T&M Stone Quarry, L.L.C. shall at all times maintain a list of the specific equipment currently being utilized with the generic stationary rock crushing plant (059-0021). The installation shall immediately make this list of currently used equipment available to any Missouri Department of Natural Resources' personnel upon request.

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Permit No.	042007-008
Project No.	2006-12-064

GENERAL SPECIAL CONDITIONS:

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

2. 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.
3. 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.

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Permit No.	042007-008
Project No.	2006-12-064

SPECIAL CONDITIONS:

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

Site ID No.: 059-0021
Site Name: Buffalo Quarry
Site Address: 10070 State Hwy. 38, Buffalo, MO 65622
Site County: Dallas County, S3/4, T32N, R20W

1. **Best Management Practices**
T&M Stone Quarry, L.L.C. 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 (PM₁₀)**
 - A. The operator(s) for T&M Stone Quarry's rock crushing plant (059-0021) shall ensure, while operating at this site, that the ambient impact of PM₁₀ at or beyond the nearest property boundary does not exceed 150 µg/m³ in any 24-hour period, in accordance with the Federal NAAQS requirements (40 CFR 50.6).
 - B. The total daily ambient impact of PM₁₀ 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 with special condition 2A, the operator(s) shall maintain a daily record of material processed.
 - 1.) During solitary operation, no record keeping is required.
 - 2.) During concurrent, same owner operations, Attachment A, or other equivalent form(s), shall also be used for this purpose.
 - 3.) During concurrent separate owners operations, Attachment B, or other equivalent form(s) shall be used for this purpose.
 - 4.) During concurrent, same **AND** separate owners operations, Attachment B, or other equivalent form(s) can also be used for this purpose.
3. **Annual Emission Limit of Nitrogen Oxides (NO_x)**
 - A. The operator(s) shall ensure that T&M Stone Quarry's plant emits less than 40 tons of NO_x into the atmosphere in any 12-month period.
 - B. To demonstrate compliance, the operator(s) shall maintain a daily record of material processed and NO_x. Attachment C, *Monthly Nitrogen Oxides (NO_x) Emissions Tracking Record*, or other equivalent form(s), will be used for this purpose.
4. **Annual Emission Limit of Particulate Matter Less Than Ten Microns in Diameter (PM₁₀)**
 - A. The operator(s) shall ensure that T&M Stone's rock crushing plant emits less than 15 tons of PM₁₀ into the atmosphere in any 12-month period.
 - B. To demonstrate compliance, the operator(s) shall maintain a daily record of material processed and PM₁₀. Attachment D, *Monthly PM₁₀ Emissions Tracking Record*, or other equivalent form(s), will be used for this purpose.
5. **Usage of Wet Suppression Control System on Equipment**
 - A. T&M Stone Quarry, L.L.C. 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.) The primary crusher (EP-01.1)
 - 2.) The secondary crushers (5) (EP-01.2)
 - 3.) The screens (6) (EP-02)
 - B. Carryover control will apply to all equipment as long as the conditions of Special Condition 5.A. are met. In effect this will give high moisture content control to the entire process.

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Permit No.	042007-008
Project No.	2006-12-064

SPECIAL CONDITIONS:

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

- C. 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.
- 6. Performance Testing for New Source Performance Standards (NSPS)
 - A. If any equipment applicable to NSPS Subpart "OOO" has not been performance tested, the company shall submit the enclosed testing plan to the Enforcement section of the Air Pollution Control Program for this equipment. T&M Stone Quarry, L.L.C. shall contact the Enforcement section to obtain all requirements for testing, and the plan must be submitted to the Enforcement section at least 30 days prior to the proposed test date.
 - B. Testing must be performed no later than 60 days after achieving the maximum production rate of the process, and in any case no later than 180 days after initial startup. The performance test results shall be submitted to the Enforcement section no later than 30 days after completion of any required testing.
 - 7. 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). T&M Stone Quarry, L.L.C. 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.
 - 8. 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 1000 feet from the nearest property boundary whenever it is operating at this site.
 - 9. Restriction on the Use of Diesel Engine(s)/Generator(s)

The rock-crushing plant, 059-0021, shall not operate its diesel engine(s) for any purpose other than warming up before production (not to exceed two hours) and powering equipment during production.

TECHNICAL REVIEW OF APPLICATION FOR AUTHORITY TO CONSTRUCT

PROJECT DESCRIPTION

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). Processing equipment is powered with diesel engine(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 Dallas County, an attainment area for all criteria air pollutants.

The stationary rock-crushing plant is permitted to operate under the following four (4) scenarios.

- 1.) Solitary Operation: The plant can construct and operate by itself at the site. No other plants are allowed to be located at the site.
- 2.) Concurrent, Same Owner Operations: The plant can collocate and operate with asphalt, concrete or rock-crushing plants owned by T&M Stone Quarry, L.L.C..
- 3.) Concurrent, Separate Owners Operations: The plant can collocate and operate with asphalt, concrete or rock-crushing plants owned by other companies.
- 4.) Concurrent, Same **AND** Separate Owners Operations: The plant can collocate and operate with asphalt, concrete or rock-crushing plants owned by T&M Stone Quarry, L.L.C. at the same time as asphalt concrete, or rock-crushing plants owned by other companies.

Table 1. Other Permits Issued for Installation 059-0021

Permit Number	Completed	Description
No permits – new plant		

EMISSIONS EVALUATION

Criteria air pollutants will be emitted from this operation. The main air pollutant of concern is PM₁₀. 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 (5).

The rock crushing plant has annual emission limits of less than 15 tons of PM₁₀ and 40 tons of Nitrogen Oxides (NO_x) in any 12-month period. Composite emission factors were developed for the rock crushing plant, and incorporated into the monthly record keeping tables, Attachments C and D.

The rock-crushing plant is permitted to operate a maximum of 3 diesel engines/generators with a combined horsepower of 2,000. According to AP-42, there are different emission factors for each pollutant for diesel engines/generators with different design rates. For emissions analysis, the **higher** emission factors were used.

Table 2: Emissions Summary (tons per year)

Air Pollutant	Regulatory De Minimis Levels	Existing Actual Emissions (EIQ)	Potential Emissions of the Application	*New Installation Conditioned Potential	Emission Factor (lb/ton)
PM ₁₀	15.0	N/A	52.95	<15.00	0.0242
SO _x	40.0	N/A	25.72	0.64	N/A
NO _x	40.0	N/A	203.71	<40.00	0.0093
VOC	40.0	N/A	5.21	0.13	N/A
CO	100.0	N/A	54.11	1.35	N/A
HAPs	10.0/25.0	N/A	0.01	0.00	N/A

Note: N/A = Not Applicable

* Conditioned potentials proportionally reduced according to NO_x conditioned potential.

AMBIENT AIR QUALITY IMPACT ANALYSIS

Screening tools were used to evaluate the ambient air impact of the hourly emissions from this operation. The ambient impact was evaluated at a distance of 1000 feet to the nearest property boundary. The ambient impact at this site shall not exceed the National Ambient Air Quality Standard (NAAQS) of 150 $\mu\text{g}/\text{m}^3$ of PM_{10} at or beyond the nearest property boundary in any single 24-hour period. For sources agreeing to use Best Management Practices (BMPs), as defined in Attachment AA, haul roads and stockpiles are not modeled with screening tools. Instead, they are addressed as a background level of 20 $\mu\text{g}/\text{m}^3$ of PM_{10} . To ensure conformity with NAAQS, the remaining process emissions are limited to an impact of less than 130 $\mu\text{g}/\text{m}^3$ of PM_{10} at or beyond the nearest property boundary.

The stationary rock-crushing plant is permitted to operate under four (4) scenarios. The PM_{10} ambient impact record keeping requirements for each scenario are as follows.

- Solitary Operation: No record keeping is required.
- Concurrent, Same Owner Operations: The stationary rock-crushing plant must not only track its own daily PM_{10} ambient impact, but also the daily PM_{10} ambient impact of other plants that are owned T&M Stone Quarry, L.L.C.. Attachment A, or other equivalent form(s), can also be used for this scenario.
- Concurrent, Separate Owners Operations: The stationary rock-crushing plant shall limit its production to hold its daily PM_{10} ambient impact under 54.47 $\mu\text{g}/\text{m}^3$. The plants owned by the other companies will be allowed the remaining balance of 75.43 $\mu\text{g}/\text{m}^3$. Attachment B, or other equivalent form(s), can be used for this purpose.
- Concurrent, Separate and Same Owners Operations: The stationary rock-crushing plant must track its own daily PM_{10} ambient impact and that of any other plants owned by T&M Stone Quarry, L.L.C. to ensure that the combined daily PM_{10} ambient impact from all plants is below 54.47 $\mu\text{g}/\text{m}^3$. The remaining balance of 75.43 $\mu\text{g}/\text{m}^3$ can be used by the plants owned by the other companies. Attachment B, or other equivalent form(s) can also be used for this scenario.

Table 3: Ambient Air Quality Impact Analysis of PM_{10} , 24-Hour Averaging Time

Operation	Ambient Impact Factor ($\mu\text{g}/\text{m}^3/\text{ton}$)	Modeled Impact ($\mu\text{g}/\text{m}^3$)	*Background ($\mu\text{g}/\text{m}^3$)	NAAQS ($\mu\text{g}/\text{m}^3$)	Daily Production Limit (tons)
1. Solitary – Attachment A	0.0087	104.39	20.00	150.00	N/A
2. Concurrent, Same Owner – Attachment A	0.0087	**	20.00	150.00	**
3. Concurrent, Separate Owners – Attachment B	0.0078	54.47	95.43	150.00	7,000
4. Concurrent – Both Same and Separate Owners – Attachment B	0.0078	**	95.43	150.00	**

*Background PM_{10} level from haul roads and stockpiles and from the operation of asphalt, concrete, or rock-crushing plants owned by other companies.

** The operator(s) must balance production among concurrently operating plants owned by T&M Stone Quarry, L.L.C. such that NAAQS is not exceeded. The daily PM_{10} ambient impact from other plants owned by T&M Stone Quarry, L.L.C. 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
- 40 CFR Part 60 Subpart "OOO", *Standards of Performance for Nonmetallic Mineral Processing Plants*, of the New Source Performance Standards (NSPS)
- 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 (5), Missouri State Rule 10 CSR 10-6.060, *Construction Permits Required*, I recommend this permit be granted with special conditions.

Jeannie Kozak
Environmental Engineer

Date

PERMIT DOCUMENTS

The following documents are incorporated by reference into this permit:

- The Application for Authority to Construct form, designating T&M Stone Quarry, L.L.C. 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*.
- Noyes Data Corp., Orlemann, et al 1983, *Fugitive Dust Control*.
- EPA Factor Information Retrieval (FIRE) Version 6.21.
- Spreadsheet calculations of potential-to-emit and ambient impact.
- Southwest Regional Office Site Survey.
- Best Management Practices

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"¹ 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.

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.

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.

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.

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. Le-Roy Tarr
Owner
T&M Stone Quarry, L.L.C.
530 E. 460th Road
Fair Play, MO 65649

RE: New Source Review Permit - Project Number: 2006-12-064

Dear Mr. Tarr:

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

Operation in accordance with the conditions and requirements in your permit, the New Source Review application submitted for project 2006-12-064, and your amended operating permit 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 Jeannie Kozak at (573) 751-4817, or you may write to me at 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 Hale, P.E.
New Source Review Unit Chief

KBH: jkl

Enclosures

c: Southwest Regional Office
PAMS File 2006-12-064
Permit Number: