

STATE OF MISSOURI



DEPARTMENT OF NATURAL RESOURCES
MISSOURI AIR CONSERVATION COMMISSION
PERMIT TO CONSTRUCT

Permit Number: 062009-011 Project Number: 2009-03-070
Parent Company: Fischer Quarries & Hauling, LLC
Parent Company Address: 25501 State Rt. Z , St. Mary. MO 63673
Installation Name: Fischer Quarries & Hauling, LLC (PORT-0504)
Installation Address: 2339 Highway H, Farmington, MO 63640
Location Information: St. Francis County, S24, T35N, R5E

Application for Authority to Construct was made for:

The the modification of an existing portable rock crushing plant. Rock is processed through 1 crusher(s), 2 screen(s), and 3 conveyor(s). The portable rock crushing plant has a maximum hourly design rate (MHDR) of 150 tons per hour (tph). PORT-0504 is replacing their primary and secondary crushers as well as adding 2 preapproved relocation sites. This review was conducted in accordance with Section (6), Missouri State Rule 10 CSR 10-6.060, *Construction Permits Required*.

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- Standard Conditions (on reverse) are applicable to this permit.
- Standard Conditions (on reverse) and Special Conditions are applicable to this permit.

JUN 12 2009

EFFECTIVE DATE

A handwritten signature in black ink, appearing to read "James L. Kawenczyk".

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 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 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 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 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.

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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-0504) Fischer Quarries & Hauling, LLC 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. **Superseding Condition**
The conditions of this permit supersede all special conditions found in the previously issued construction permit(s) (072004-002) from the Air Pollution Control Program.

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SITE-SPECIFIC 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.

Site ID No.: 18I -00I I
 Site Name: Central Stone - Farmington
 Site Address: 2339 Highway H, Farmington, MO 63640
 Site County: St. Francis County, S24, T35N, R5E

1. **Best Management Practices**
 Fischer Quarry & Hauling LLC 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 Fischer Quarry & Hauling LLC portable rock crushing plant (PORT-0504) 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, the operator(s) shall maintain a daily record of material processed. Attachment A, *Daily Ambient PM₁₀ Impact Tracking Record*, or other equivalent form(s), will be used for this purpose.
3. **Annual Emission Limit of Nitrogen Oxides (NO_x)**
 - A. The operator(s) shall ensure that Fischer Quarry & Hauling LLC's PORT-0504 emission unit EP-6b, emits less than 40.0 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 A, *Monthly Nitrogen Oxides (NO_x) Emissions Tracking Record*, or other equivalent form(s), shall be used for this purpose.
4. **Usage of Wet Suppression Control System on Equipment**
 - A. Fischer Quarry & Hauling LLC 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:
 - 3.) The primary crusher (EP1)
 - 4.) The secondary crusher (EP4)
 - 5.) The Chiefton Power Screen (EP3)
 - 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. **Performance Testing for New Source Performance Standards (NSPS)**
 Fischer Quarry & Hauling LLC shall comply with all appropriate monitoring, testing, reporting and record keeping requirements of 40 CFR Part 60, Subpart OOO – *Standards of Performance for Nonmetallic Mineral Processing Plant*.
6. **Restriction on Process Configuration of Primary Emission Point(s)**

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SITE-SPECIFIC SPECIAL CONDITIONS:

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

The maximum hourly design rate of the plant is equal to the sum of the MHDR'(s) of the primary emission point(s). Fischer Quarry & Hauling LLC has designated the following unit(s) as the primary emission point(s) of the portable plant: Primary crusher (EP1). Bypassing the primary emission point(s) for processing is prohibited.

7. **Restriction on Minimum Distance to Nearest Property Boundary**
The primary emission point of PORT-0504, which is the primary crusher (EP1), shall be located at least 400 feet from the nearest property boundary whenever it is operating at this site.
8. **Restriction on the Use of Diesel Engine(s)**
The diesel engine(s) shall only be used to power equipment during production. If the company decides to use the diesel engine for any other purpose, a new permit review will be required.
9. **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.
10. **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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SITE-SPECIFIC 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.

Site ID No.: 157-0040
 Site Name: Perry County
 Site Address: 1481 S Kings Highway, Perryville, MO 63775
 Site County: Perry County, S29, T35N, R11E

1. **Best Management Practices**
 Fischer Quarry and Hauling 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 Fischer Quarry & Hauling LLC portable rock crushing plant (PORT-0504) 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, the operator(s) shall maintain a daily record of material processed. Attachment A, *Daily Ambient PM₁₀ Impact Tracking Record*, or other equivalent form(s), will be used for this purpose.
3. **Annual Emission Limit of Nitrogen Oxides (NO_x)**
 - A. The operator(s) shall ensure that Fischer Quarry & Hauling LLC's PORT-0504 emission unit EP-6b, emits less than 40.0 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 A, *Monthly Nitrogen Oxides (NO_x) Emissions Tracking Record*, or other equivalent form(s), shall be used for this purpose.
4. **Usage of Wet Suppression Control System on Equipment**
 - A. Fischer Quarry and Hauling 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 (EP01)
 - 2.) The secondary crusher (EP04)
 - 3.) The primary screen (EP03)
 - 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. **Performance Testing for New Source Performance Standards (NSPS)**
 Fischer Quarry & Hauling LLC shall comply with all appropriate monitoring, testing, reporting and record keeping requirements of 40 CFR Part 60, Subpart OOO – *Standards of Performance for Nonmetallic Mineral Processing Plant*.
6. **Restriction on Minimum Distance to Nearest Property Boundary**

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SITE-SPECIFIC SPECIAL CONDITIONS:

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

The primary emission point of the portable plant, which is the primary crusher (EP01), shall be located at least 500 feet from the nearest property boundary whenever it is operating at this site.

7. **Restriction on the Use of Diesel Engine(s)**
The diesel engine(s) shall only be used to power equipment during production. If the company decides to use the diesel engine for any other purpose, a new permit review will be required.
8. **Restriction on Process Configuration of Primary Emission Point(s)**
The maximum hourly design rate of the plant is equal to the sum of the MHDR'(s) of the primary emission point(s). Fischer Quarry and Hauling has designated the following unit(s) as the primary emission point(s) of the portable plant: primary crusher (EP01). Bypassing the primary emission point(s) for processing is prohibited.
9. **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.
10. **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.
11. **Superseding Condition**
The conditions of this permit supersede all special conditions found in the previously issued construction permit(s) (072004-002B) from the Air Pollution Control Program.

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SITE-SPECIFIC 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.

Site ID No.: 186-0046
 Site Name: APAC Brickey's Stone
 Site Address: 13588 Brickey's Road, Bloomsdale, MO 63627
 Site County: Ste. Genevieve County, S12/23/24, T39N, R7E

1. **Best Management Practices**
 Fischer Quarry & Hauling LLC 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 Fischer Quarry & Hauling LLC portable rock crushing plant (PORT-0504) 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, the operator(s) shall maintain a daily record of material processed. Attachment A, *Daily Ambient PM₁₀ Impact Tracking Record*, or other equivalent form(s), will be used for this purpose.
3. **Annual Emission Limit of Nitrogen Oxides (NO_x)**
 - A. The operator(s) shall ensure that Fischer Quarry & Hauling LLC's PORT-0504 emission unit EP-6b, emits less than 40.0 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 A, *Monthly Nitrogen Oxides (NO_x) Emissions Tracking Record*, or other equivalent form(s), shall be used for this purpose.
4. **Usage of Wet Suppression Control System on Equipment**
 - A. Fischer Quarry & Hauling LLC 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 (EP1)
 - 2.) The secondary crusher (EP4)
 - 3.) The Chiefton Power Screen (EP3)
 - 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. **Performance Testing for New Source Performance Standards (NSPS)**
 Fischer Quarry & Hauling LLC shall comply with all appropriate monitoring, testing, reporting and record keeping requirements of 40 CFR Part 60, Subpart OOO – *Standards of Performance for Nonmetallic Mineral Processing Plant*.
6. **Restriction on Process Configuration of Primary Emission Point(s)**

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SITE-SPECIFIC SPECIAL CONDITIONS:

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

The maximum hourly design rate of the plant is equal to the sum of the MHDR(s) of the primary emission point(s). Fischer Quarry & Hauling LLC has designated the following unit(s) as the primary emission point(s) of the portable plant: Primary crusher (EP1). Bypassing the primary emission point(s) for processing is prohibited.

7. **Restriction on Minimum Distance to Nearest Property Boundary**
The primary emission point of the portable plant, which is the primary crusher (EP1), shall be located at least 1,700 feet from the nearest property boundary whenever it is operating at this site.
8. **Restriction on the Use of Diesel Engine(s)**
The diesel engine(s) shall only be used to power equipment during production. If the company decides to use the diesel engine for any other purpose, a new permit review will be required.
9. **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.
10. **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.
11. **Superseding Condition**
The conditions of this permit supersede all special conditions found in the previously issued construction permit(s) (072004-002A) from the Air Pollution Control Program.

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| Project No. | 2009-03-070 |

SITE-SPECIFIC 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.

Site ID No.: 186-0043
Site Name: Fischer Brothers Quarry
Site Address: 2205 State Rt. Z, St Mary, MO 63673
Site County: Ste. Genevieve County, S01, T36N, R9E

1. **Best Management Practices**
Fischer Quarry & Hauling LLC 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 Fischer Quarry & Hauling LLC portable rock crushing plant (PORT-0504) 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, the operator(s) shall maintain a daily record of material processed. Attachment A, *Daily Ambient PM₁₀ Impact Tracking Record*, or other equivalent form(s), will be used for this purpose.
3. **Annual Emission Limit of Nitrogen Oxides (NO_x)**
 - A. The operator(s) shall ensure that Fischer Quarry & Hauling LLC's PORT-0504 emission unit EP-6b, emits less than 40.0 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 A, *Monthly Nitrogen Oxides (NO_x) Emissions Tracking Record*, or other equivalent form(s), shall be used for this purpose.
4. **Usage of Wet Suppression Control System on Equipment**
 - A. Fischer Quarry & Hauling LLC 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 (EP1)
 - 2.) The secondary crusher (EP4)
 - 3.) The Chiefton Power Screen (EP3)
 - 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. **Performance Testing for New Source Performance Standards (NSPS)**
Fischer Quarry & Hauling LLC shall comply with all appropriate monitoring, testing, reporting and record keeping requirements of 40 CFR Part 60, Subpart OOO – *Standards of Performance for Nonmetallic Mineral Processing Plant*.

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SITE-SPECIFIC SPECIAL CONDITIONS:

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

6. **Restriction on Process Configuration of Primary Emission Point(s)**
The maximum hourly design rate of the plant is equal to the sum of the MHDR(s) of the primary emission point(s). Fischer Quarry & Hauling LLC has designated the following unit(s) as the primary emission point(s) of the portable plant: Primary crusher (EP1). Bypassing the primary emission point(s) for processing is prohibited.
7. **Restriction on Minimum Distance to Nearest Property Boundary**
The primary emission point of PORT-0504, which is the primary crusher (EP1), shall be located at least 600 feet from the nearest property boundary whenever it is operating at this site.
8. **Restriction on the Use of Diesel Engine(s)**
The diesel engine(s) shall only be used to power equipment during production. If the company decides to use the diesel engine for any other purpose, a new permit review will be required.
9. **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.
10. **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.

TECHNICAL REVIEW OF APPLICATION FOR AUTHORITY TO CONSTRUCT

PROJECT DESCRIPTION

Fischer Quarries & Hauling, LLC's PORT-0504 is replacing their primary and secondary crusher with a Pegson 26x44 Jaw crusher (primary) and a Pegson 1000 Cone crusher (secondary). Both new pieces of equipment have their own diesel engine for a power source. Because these diesel engines are larger than what was on the previous crushers a permit is required. PORT-0504 will be located at Central Stone - Farmington quarry. Added to the permit is the preapproval of three sites that PORT-0504 can locate with just 7-day relocation instead of 21-day relocation. Those sites include the Fischer Brother Quarry, Perry County, and Brickey's Stone Quarry.

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 Ste. Genevieve County, an attainment area for all criteria air pollutants.

Table 1. Other Permits Issued for Site 186-0046

| Permit Number | Completed | Description |
|---------------|-----------|----------------------|
| 072004-002 | 7/7/2004 | New Portable Crusher |
| 072004-002 | 6/21/2006 | Relocation |
| 072004-002A | 11/7/2008 | Relocation |
| 072004-002B | 1/23/2009 | Relocation |

EMISSIONS EVALUATION

Criteria air pollutants will be emitted from this operation. The main air pollutant of concern is PM₁₀ and NO_x. 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 *de minimis* source under 10 CSR 10-6.060 section (5).

The portable rock crushing plant has an annual emission limit of less than 40.0 tons of NO_x in any 12-month period. A composite NO_x emission factor was developed for the portable rock crushing plant. The composite emission factor is incorporated into the monthly record keeping table, Attachment A. If the conditioned potential emissions of NO_x were 40.0 tons per year or greater, then the owner would be required to submit dispersion modeling results.

The current permit for PORT-0504 does not have any limits because an ambient air quality impact analysis was done for both PM₁₀ and NO_x and both were found to be in compliance with the NAAQS standard. In order to allow concurrent operation on the site and to avoid an ambient air quality impact analysis for each plant on the site, a annual limit of 40 tons of NO_x was given to the entire installation. The potential emissions of the project itself trigger the need for a construction permit and a NO_x limit.

Table 2: Emissions Summary (tons per year)

| Air Pollutant | Regulatory De Minimis Levels | Existing Potential Emissions | Existing Actual Emissions (2007 EIQ) | Potential Emissions of the Application | Potential Emissions of the Installation | *Installation Conditioned Potential | Emission Factor (lb/gal) |
|-----------------------------|------------------------------|------------------------------|--------------------------------------|--|---|-------------------------------------|--------------------------|
| PM ₁₀ (Brickey) | 15.0 | N/A | N/A | 2.70 | 33.24 | 15.11 | N/A |
| PM ₁₀ (Fischer) | 15.0 | N/A | N/A | 2.70 | 30.34 | 14.00 | N/A |
| PM ₁₀ (Perry) | 15.0 | N/A | N/A | 2.70 | 31.92 | 14.72 | N/A |
| PM ₁₀ (Central) | 15.0 | N/A | N/A | 2.70 | 30.34 | 14.00 | N/A |
| SO _x (All Sites) | 40.0 | N/A | N/A | 7.72 | 11.11 | 5.05 | N/A |
| NO _x (All Sites) | 40.0 | N/A | N/A | 61.11 | 88.00 | <40.0 | 0.4384 |
| VOC (All Sites) | 40.0 | N/A | N/A | 1.56 | 2.25 | 1.02 | N/A |
| CO (All Sites) | 100.0 | N/A | N/A | 16.23 | 23.38 | 10.63 | N/A |
| HAPs (All Sites) | 10.0/25.0 | N/A | N/A | 0.03 | 0.04 | 0.02 | N/A |

Note: N/A = Not Applicable* Conditioned potential based on voluntary limit. All other pollutants are proportionally reduced.

AMBIENT AIR QUALITY IMPACT ANALYSIS

Screening tools were used to evaluate the ambient air impact of the hourly emissions from this operation. The ambient impact was evaluated at a distance nearest to the property boundary for each site. The ambient impact at this site shall not exceed the National Ambient Air Quality Standard (NAAQS) of 150 µg/m³ of PM₁₀ at or beyond the nearest property boundary in any single 24-hour period. The screening tools were used to develop an ambient impact factor for the portable rock crushing plant

For sources agreeing to use Best Management Practices (BMPs), as defined in Attachment AA, haul roads and stockpiles are not modeled with screening tools. Instead, they are addressed as a background level of 20 µg/m³ of PM₁₀. To ensure conformity with NAAQS, the remaining process emissions are limited to an impact of less than 130 µg/m³ of PM₁₀ at or beyond the nearest property boundary.

The plant is permitted to operate under the following four conditions:

Solitary Operation:

Solitary Operation is defined as operation when no other installations are present on the property. Since their impacts are below the NAAQS standards while operating under the is scenario no daily record keeping is required.

Concurrent Same-Owner Operation:

Concurrent Same-Owner Operation is defined as operation when other plants owned by Fischer Quarries & Hauling, LLC are located on the property. During Concurrent Same-Owner Operation, Capital Quarries may balance and record the daily production from all plants such that the NAAQS is not exceeded.

Concurrent Separate-Owner Operation:

Concurrent Separate-Owner Operation is defined as operation when other plants not owned by parent company are located on the property. During Concurrent Separate-Owner Operation, the total impact from all plants operating at the site must be below the 150 µg/m³

Concurrent Same-and-Separate-Owner Operation:

Concurrent Same-and-Separate-Owner Operation is defined as operation when plants owned by Fischer Quarries & Hauling, LLC and plants not owned by Fischer Quarries & Hauling, LLC are located on the property. During Concurrent Same-and-Separate-Owner Operation, Fischer Quarries & Hauling, LLC may balance the daily production from all owned plants with a reduced impact to account for the impact from the non-owned plants to insure that the NAAQS is not exceeded.

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

| Operation | Site | Ambient Impact Factor (µg/m ³ /ton) | Modeled Impact (µg/m ³) | *Background (µg/m ³) | **NAAQS (µg/m ³) | Daily Production Limit (tons) |
|--|--------------------|--|-------------------------------------|----------------------------------|------------------------------|-------------------------------|
| Solitary / Concurrent (Same) | 1. Central Stone | 0.02493 | 89.76 | 20.00 | 150.00 | 3600 |
| | 2. Brickey's Stone | 0.00291 | 10.47 | 20.00 | 150.00 | 3600 |
| | 3. Fischer Quarry | 0.0144 | 51.91 | 20.00 | 150.00 | 3600 |
| | 4. Perry County | 0.0186 | 66.88 | 20.00 | 150.00 | 3600 |
| Concurrent (Same & Separate) / Concurrent (Separate) | 1. Central Stone | 0.02493 | 89.76 | 60.24 | 150.00 | 3600 |
| | 2. Brickey's Stone | 0.00291 | 10.47 | 139.53 | 150.00 | 3600 |
| | 3. Fischer Quarry | 0.0144 | 51.91 | 98.09 | 150.00 | 3600 |
| | 4. Perry County | 0.0186 | 66.88 | 83.12 | 150.00 | 3600 |

* Background PM₁₀ level of 20.00 µg/m³ from haul roads and stockpiles for Solitary and Concurrent (Same) scenarios and for Concurrent (Same & Separate) and Concurrent (Separate) there will be 20 µg/m³ from haul roads and stockpiles and remaining of the 150 µg/m³ will be from the operation of plants not owned by Fischer Quarries & Hauling, LLC (PORT-0504).

** The operator(s) must balance production among concurrently operating plants, with the ambient impact factors for each, such that NAAQS is not exceeded.

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
- *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.

Gerad Fox
Environmental Engineer

Date

PERMIT DOCUMENTS

The following documents are incorporated by reference into this permit:

- The Application for Authority to Construct form, designating Fischer Quarries & Hauling, LLC 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. book, Orlemann, et al.1983, *Fugitive Dust Control*.
- EPA Factor Information Retrieval (FIRE) Version 6.21.
- Spreadsheet calculations of potential-to-emit and ambient impact.
- Southeast 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 Emissions¹” 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.

Mrs. Tina Ringwald
Office Manager
Fischer Quarries & Hauling, LLC
25501 State Rt. Z
St. Mary, MO 63673

RE: New Source Review Permit - Project Number: 2009-03-070

Dear Mrs. Ringwald:

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 2009-03-070 is necessary for continued compliance.

The section of the permit entitled "Technical Review of Application for Authority to Construct" should not be separated from the main portion of your permit. The entire permit must be retained in your files. The reverse side of your permit certificate has important information concerning standard permit conditions and your rights and obligations under the laws and regulations of the State of Missouri.

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

Sincerely,

AIR POLLUTION CONTROL PROGRAM

Kendall B. Hale
New Source Review Unit Chief

KBH:gfl

Enclosures

c: Southeast Regional Office
PAMS File: 2009-03-070
Permit Number: