

STATE OF MISSOURI

PERMIT BOOK



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: 062013-006 Project Number: 2013-03-027
Installation ID: 186-0021

Parent Company: APAC-Tennessee Inc. Memphis Division

Parent Company Address: P.O. Box 13427, 1210 Harbor Ave., Memphis, TN 38113-0427

Installation Name: APAC-Tennessee Inc., Memphis Division, APAC-Brickey's Stone

Installation Address: 13588 Brickey's Road, Bloomsdale, MO 63627

Location Information: Ste. Genevieve County, S23 & 24 T39N R7E

Application for Authority to Construct was made for:
Construction of a new rock crushing and screening 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.

JUN 12 2013

EFFECTIVE DATE

Kyra L Moore
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 this (these) air contaminant source(s). 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 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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**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) 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."*

1. Superseding Condition

The conditions of this permit supersede special conditions #1, #2, and #3 found in the previously issued construction permit(s) (022003-006A) from the Air Pollution Control Program.

2. Best Management Practices Requirement

APAC-Tennessee Inc., Memphis Division, APAC-Brickey's Stone 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.

3. Ambient Air Impact Limitation

A. APAC-Tennessee Inc., Memphis Division, APAC-Brickey's Stone shall not cause an exceedance of the NAAQS for PM<sub>10</sub> of 150.0 µg/m<sup>3</sup> 24-hour average in ambient air.

B. APAC-Tennessee Inc., Memphis Division, APAC-Brickey's Stone shall demonstrate compliance with Special Condition 3.A using an electronic forms that contains the following information:

- 1) Installation Name, Installation ID, Permit Number, Project Number
- 2) Pollutant being tracked (Daily Ambient PM<sub>10</sub> Impact)
- 3) Date range
- 4) Plant/owner ID/PORT #
- 5) Each respective emission factor (PM<sub>10</sub> Impact Factor) (0.0022 µg/m<sup>3</sup>/ton for this project)
- 6) Amount of material processed per day (tons of aggregate)
- 7) Daily total of all plants operating at this site plus background (20 µg/m<sup>3</sup>)
- 8) Compliance limit (150 µg/m<sup>3</sup>)

C. APAC-Tennessee Inc., Memphis Division, APAC-Brickey's Stone is exempt from the requirements of Special Condition 3.B when only this rock crusher/screening plant and no other plants are operating at this site.

4. Annual Emission Limit

A. APAC-Tennessee Inc., Memphis Division, APAC-Brickey's Stone shall emit less than 15.0 tons of PM<sub>10</sub> in any 12-month period from the equipment listed in Table 1.

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**SITE SPECIFIC SPECIAL CONDITIONS:**

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

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- B. APAC-Tennessee Inc., Memphis Division, APAC-Brickey's Stone shall demonstrate compliance with Special Condition 4.A using Attachment A or another equivalent form that has been approved by the Air Pollution Control Program, including an electronic form.
5. Moisture Content Testing Requirement
- A. APAC-Tennessee Inc., Memphis Division, APAC-Brickey's Stone shall verify that the moisture content of the processed rock is greater than or equal to 1.5 percent by weight.
  - B. Testing shall be conducted according to the method prescribed by the American Society for Testing Materials (ASTM) D-2216, C-566 or another method approved by the Director.
  - C. The initial test shall be conducted no later than 45 days after the start of operation. A second test shall be performed the calendar year following the initial test during the months of July or August.
  - D. The test samples shall be taken from rock that has been processed by the plant or from each source of aggregate (e.g. quarry).
  - E. The written analytical report shall include the raw data and moisture content of each sample, the test date and the original signature of the individual performing the test. The report shall be filed on-site or at the APAC-Tennessee Inc., Memphis Division, APAC-Brickey's Stone main office within 30 days of completion of the required test.
  - F. If the moisture content of either of the two tests is less than the moisture content in Special Condition 5.A, another test may be performed within 15 days of the noncompliant test. If the results of that test also exceed the limit, APAC-Tennessee Inc., Memphis Division, APAC-Brickey's Stone shall either:
    - 1) Apply for a new permit to account for the revised information, or
    - 2) Submit a plan for the installation of wet spray devices to the Compliance/Enforcement Section of the Air Pollution Control Program within 10 days of the second noncompliant test. The wet spray devices shall be installed and operational within 40 days of the second noncompliant test.
6. Minimum Distance to Property Boundary Requirement
- The primary emission point (EP-02) shall be located at least 1,700 feet from the 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:

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7. **Primary Equipment Requirement**  
APAC-Tennessee Inc., Memphis Division, APAC-Brickey's Stone shall process all rock through the primary crusher (EP-02). Bypassing the primary crusher is prohibited.
8. **Record Keeping Requirement**  
APAC-Tennessee Inc., Memphis Division, APAC-Brickey's Stone shall maintain all records required by this permit for not less than five years and make them available to any Missouri Department of Natural Resources personnel upon request.
9. **Reporting Requirement**  
APAC-Tennessee Inc., Memphis Division, APAC-Brickey's Stone shall report to the Air Pollution Control Program Enforcement Section P.O. Box 176, Jefferson City, MO 65102, no later than 10 days after any exceedances of the limitations imposed by this permit.

REVIEW OF APPLICATION FOR AUTHORITY TO CONSTRUCT AND OPERATE  
SECTION (6) REVIEW

Project Number: 2013-03-027  
Installation ID Number: 186-0021  
Permit Number:

APAC-Tennessee Inc., Memphis Division, APAC-Brickey's Stone  
13588 Brickey's Road  
Bloomsdale, MO 63627

Parent Company:  
APAC-Tennessee Inc. Memphis Division  
P.O. Box 13427, 1210 Harbor Ave.  
Memphis, TN 38113-0427

Ste. Genevieve County, S23 & 24 T39N R7E

Complete: March 8, 2013

INSTALLATION DESCRIPTION

APAC-Tennessee Inc., Memphis Division, APAC-Brickey's Stone operates an existing stationary rock crusher at Site ID 186-0021. Currently, several portable crushers from various companies (separate owner) also operate at Brickey's quarry. These portable plants are located there to meet production until this project is in operation. Once the new stationary rock crusher/screening plant is up and running, the portable plants will leave. As needed, a portable cage mill will be located on site to produce agricultural grade lime.

PROJECT DESCRIPTION

APAC-Tennessee Inc., Memphis Division, APAC-Brickey's Stone is constructing a new rock crusher and screening plant for the production of construction aggregates. This plant is, by design, portable with the capability to move to various locations within the boundaries of this site. APAC-Brickey's Stone will not move this plant to other Missouri facilities; it will remain stationary to this site. The primary crusher (EP-02) will be located 1,700 feet from the property line. This site will have a maximum production rate of 700 tons per hour and the equipment listed in Table 1 will be arranged in various configurations to meet production needs. This rock crushing and screening plant will be powered off the grid, therefore there are no diesel engine/generator calculations. Although various pieces of equipment are equipped with wet spray devices, the emission control will be determined by the inherent moisture content greater than 1.5 percent by weight of the processed rock. The haul road will transport finished product from the storage piles to the barge loading area. Trucks unload the finished product into a hopper, conveyed across railroad tracks and loaded into barges on the Mississippi River.

The applicant is using one of the methods described in Attachment AA, "Best Management Practices," to control emissions from haul roads and vehicular activity areas.

This installation is located in Ste. Genevieve 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.

## TABLES

The following Table 1 lists the Unit ID with the description of the equipment for this project.

Table 1: Emission Units

Unit ID	Equipment/Description
EP-1	Loading with truck, trackhoe, or loader
EP-2	Jaw Crusher TelSmith PA6060
EP-3	C1 Conveyor
EP-4	C2 Conveyor
EP-5	C3 Conveyor
EP-6	Triple deck screen TelSmith
EP-7	C4 Conveyor
EP-8	C5 Conveyor
EP-9	C6 Conveyor
EP-10	C7 Conveyor
EP-11	C8 Conveyor
EP-12	Cone Crusher TelSmith 52SBS
EP-13	Cone Crusher TelSmith 52SBS
EP-14	C9 Conveyor
EP-15	C16 Conveyor
EP-16	Triple Deck Screen TelSmith
EP-17	C10 Conveyor
EP-18	C11 Conveyor
EP-19	C14 Conveyor
EP-20	C13 Conveyor
EP-21	Pep Screen Deck TelSmith
EP-22	C11 Conveyor
EP-23	C11A Conveyor
EP-24	C13 Conveyor
EP-25a	Stock pile load-in
EP-25b	Wind Erosion
EP-25c	Vehicular Activity
EP-25d	Stock pile load-out
EP-26	Hopper for barge loading
EP-27	Conveyor for barge loading
EP-28	Pit Haul Road
EP-29	Haul Road from storage piles to barge loading

The following permits have been issued to APAC-Tennessee Inc., Memphis Division, APAC-Brickey's Stone from the Air Pollution Control Program.

Table 2: Permit History

Permit Number	Description
0786-002	Portable Rock Crushing Plant
0697-016	Blasting/loading hauling only
0798-044	Additional Crusher & Screen
0399-033	Amend conveyers, stacker, stockpiles
0799-002	Limestone rinser
0798-044A	Reduce crushing
082001-021	Rock Crushing
022003-006	Conveyors, wash plant, screen
0595-029C	Dust control methods
042001-010H	Dust control methods
102005-004	New portable crusher
072006-005	New portable crusher
022003-006A	Colocation

The Table 3 below summarizes the emissions of this project. The Existing Potential Emissions are from the existing stationary rock crusher, Permit 022003-006. The existing actual emissions were taken from the 2012 EIQ. The potential emissions of the application represent the emissions of all equipment and activities assuming continuous operation (8760 hours per year).

Table 3: Emissions Summary (tons per year)

Air Pollutant	De Minimis Level/SMAL	<sup>a</sup> Existing Potential Emissions	<sup>b</sup> Existing Actual Emissions (2012 EIQ)	<sup>b</sup> Potential Emissions of the Application	Conditioned Potential Emissions	Conditioned Potential of the Installation
PM	25.0	N/D	N/D	291.73	44.41	N/D
PM <sub>10</sub>	15.0	<113.7	25.03	98.54	<15.0	<128.7
PM <sub>2.5</sub>	10.0	N/D	0.45	40.05	6.10	N/D
SO <sub>x</sub>	40.0	8.31	2.08	N/A	N/A	N/A
NO <sub>x</sub>	40.0	65.83	12.91	N/A	N/A	N/A
VOC	40.0	1.68	1.09	N/A	N/A	N/A
CO	100.0	17.49	3.37	N/A	N/A	N/A
Total HAPs	25.0	0.03	N/D	N/A	N/A	N/A

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

<sup>a</sup>Existing Potential Emissions are taken from Permit 022003-006.

<sup>b</sup>The last full EIQ was done 2008. Reduced EIQs have been submitted since 2009 through 2012.

Table 4 summarizes the ambient air quality impact analysis. The maximum modeled impact is the impact of each pollutant when the plant is operating continuously. The 24-hour limited impacts and daily limit are based on compliance with the NAAQS for PM<sub>10</sub>.

Table 4: Ambient Air Quality Impact Analysis

Pollutant	NAAQS/RAL ( $\mu\text{g}/\text{m}^3$ )	Averaging Time	<sup>a</sup> Maximum Modeled Impact ( $\mu\text{g}/\text{m}^3$ )	Limited Impact ( $\mu\text{g}/\text{m}^3$ )	Background ( $\mu\text{g}/\text{m}^3$ )	<sup>b</sup> Daily Limit (tons/day)
PM <sub>10</sub> (solitary)	150.0	24-hour	36.25	N/A	20.0	N/A
<sup>c</sup> PM <sub>10</sub> (same)	150.0	24-hour	N/A	130.0	20.0	N/A
<sup>d</sup> PM <sub>10</sub> (separate)	150.0	24-hour	N/A	125.0	25.0	N/A
<sup>e</sup> PM <sub>10</sub> (separate)	150.0	24-hour	N/A	100.0	50.0	N/A

<sup>a</sup>Modeled impact at maximum capacity with controls

<sup>b</sup>Indirect limit based on compliance with NAAQS.

<sup>c</sup>Operation with other plants that are owned by APAC-Tennessee Inc. Memphis Division

<sup>d</sup>Operation with other plants that are not owned by APAC-Tennessee Inc. Memphis Division

<sup>e</sup>Operation with other plants that are not owned by APAC-Tennessee Inc. Memphis Division that will operate at this site until this project is constructed and operating. (Portable rock crushing plants from Fred Weber and Fischer Quarry & Hauling are the portable plants currently located at this site.)

## EMISSIONS CALCULATIONS

Emissions for the project were calculated using emission factors found in the United States EPA document AP-42 *Compilation of Air Pollutant Emission Factors, Volume 1: Stationary Point and Area Sources*, Fifth Edition (AP-42).

Emissions from the rock-crushing equipment were calculated using emission factors from AP-42 Section 11.19.2 “Crushed Stone Processing and Pulverized Mineral Processing,” August 2004. The controlled emission factors were used because the inherent moisture content of the crushed rock is greater than 1.5 % by weight. The equipment does have water spray devices, but there is no requirement to operate them.

The plant is powered from the grid, therefore there are no calculations for engine/generator’s emissions.

Emissions from haul roads and vehicular activity areas were calculated using the predictive equation from AP-42 Section 13.2.2 “Unpaved Roads,” November 2006. A 90% control efficiency for PM and PM<sub>10</sub> and a 40% control efficiency for PM<sub>2.5</sub> were applied to the emission calculations for the use of BMPs. Emissions from load-in and load-out of storage piles were calculated using the predictive equation from AP-42 Section 13.2.4. The moisture content of the aggregate is 1.5% by weight. Emissions from wind erosion of storage piles were calculated using an equation found in the Air Pollution Control Program’s Emissions Inventory Questionnaire Form 2.8 “Storage Pile Worksheet.”

## AMBIENT AIR QUALITY IMPACT ANALYSIS

An ambient air quality impact analysis (AAQIA) was performed to determine the impact of the pollutants listed in Table 4. The Air Pollution Control Program requires an AAQIA of PM<sub>10</sub> for all asphalt, concrete and rock-crushing plants regardless of the level of PM<sub>10</sub> 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.

This plant uses BMPs to control emissions from haul roads and vehicular activity areas, so emissions from these sources were not included in the AAQIA. Instead, they were addressed as a background concentration of 20 µg/m<sup>3</sup> of PM<sub>10</sub> in accordance with the Air Pollution Control Program's BMPs interim policy.

### OPERATING SCENARIO

The rock crushing/screening plant is permitted to operate with other plants located at the site as long as the NAAQS is not exceeded. The following scenarios explain how APAC-Brickey's shall demonstrate compliance with the NAAQS.

- During solitary operations when this rock crushing and screening plant is the only plant on the site, the daily PM<sub>10</sub> ambient impact is expected to be less than the NAAQS. Therefore, no record keeping is needed to ensure compliance.
- When plants that are owned by APAC-Brickey's which are referred to as same owner plants, are located at the site, APAC-Brickey's must calculate the daily impact of each plant and limit the total impact of all plants below the NAAQS. The ambient impact factor for this plant is 0.0022 µg/m<sup>3</sup>/ton.
- When plants that are not owned by APAC-Brickey's Stone, which are referred to as separate owner plants, are located at the site, APAC-Brickey's Stone must account for the impacts of these plants as a background concentration and add it to the total impact of all plants owned by APAC-Brickey's Stone that are operating at the site. This total is limited below the NAAQS. APAC-Brickey's Stone shall limit the total impact of all plants they own and operate at the site to 125.0 µg/m<sup>3</sup> when any plants they do not own are located at the site. APAC-Brickey's Stone is not permitted to operate with any plants that are not owned by APAC-Brickey's Stone that has a combined separate owner background greater than 5.0 µg/m<sup>3</sup>.

## 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<sub>10</sub> are conditioned below de minimis levels. Potential emissions of PM are the above de minimis level but below the major source level.

## APPLICABLE REQUIREMENTS

APAC-Tennessee Inc., Memphis Division, APAC-Brickey's Stone 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.

### GENERAL REQUIREMENTS

- *Submission of Emission Data, Emission Fees and Process Information*, 10 CSR 10-6.110.
- A Basic Operating Permit application is required for this installation within 30 days of commencement of operations.
- *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 10-6.165

### SPECIFIC REQUIREMENTS

- 40 CFR 60 Subpart OOO, "Standards of Performance for Nonmetallic Mineral Processing Plants" applies to the equipment.
- None of the National Emission Standards for Hazardous Air Pollutants (NESHAPS) or National Emission Standards for Hazardous Air Pollutants for Source Categories (MACTS) apply to the proposed equipment.

## STAFF RECOMMENDATION

On the basis of this review conducted in accordance with Section (6), Missouri State Rule 10 CSR 10-6.060, *Construction Permits Required*, I recommend this permit be granted with special conditions.

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Kathy Kolb  
New Source Review Unit

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Date

## PERMIT DOCUMENTS

The following documents are incorporated by reference into this permit:

- The Application for Authority to Construct form, dated March 1, 2013, received March 8, 2013, designating APAC-Tennessee Inc. Memphis Division as the owner and operator of the installation.
- U.S. EPA document AP-42, *Compilation of Air Pollutant Emission Factors*, Fifth Edition.



## 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<sup>1</sup> 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, volume of water application and total surface area of active haul roads or the amount of precipitation that day. The operators shall also record the rationale 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.

## APPENDIX A

### Abbreviations and Acronyms

<b>%</b> .....	percent	<b>MMBtu</b> ....	Million British thermal units
<b>°F</b> .....	degrees Fahrenheit	<b>MMCF</b> .....	million cubic feet
<b>acfm</b> .....	actual cubic feet per minute	<b>MSDS</b> .....	Material Safety Data Sheet
<b>BACT</b> .....	Best Available Control Technology	<b>NAAQS</b> ...	National Ambient Air Quality Standards
<b>BMPs</b> .....	Best Management Practices	<b>NESHAPs</b> ..	National Emissions Standards for Hazardous Air Pollutants
<b>Btu</b> .....	British thermal unit	<b>NO<sub>x</sub></b> .....	nitrogen oxides
<b>CAM</b> .....	Compliance Assurance Monitoring	<b>NSPS</b> .....	New Source Performance Standards
<b>CAS</b> .....	Chemical Abstracts Service	<b>NSR</b> .....	New Source Review
<b>CEMS</b> .....	Continuous Emission Monitor System	<b>PM</b> .....	particulate matter
<b>CFR</b> .....	Code of Federal Regulations	<b>PM<sub>2.5</sub></b> .....	particulate matter less than 2.5 microns in aerodynamic diameter
<b>CO</b> .....	carbon monoxide	<b>PM<sub>10</sub></b> .....	particulate matter less than 10 microns in aerodynamic diameter
<b>CO<sub>2</sub></b> .....	carbon dioxide	<b>ppm</b> .....	parts per million
<b>CO<sub>2e</sub></b> .....	carbon dioxide equivalent	<b>PSD</b> .....	Prevention of Significant Deterioration
<b>COMS</b> .....	Continuous Opacity Monitoring System	<b>PTE</b> .....	potential to emit
<b>CSR</b> .....	Code of State Regulations	<b>RACT</b> .....	Reasonable Available Control Technology
<b>dscf</b> .....	dry standard cubic feet	<b>RAL</b> .....	Risk Assessment Level
<b>EQ</b> .....	Emission Inventory Questionnaire	<b>SCC</b> .....	Source Classification Code
<b>EP</b> .....	Emission Point	<b>scfm</b> .....	standard cubic feet per minute
<b>EPA</b> .....	Environmental Protection Agency	<b>SIC</b> .....	Standard Industrial Classification
<b>EU</b> .....	Emission Unit	<b>SIP</b> .....	State Implementation Plan
<b>fps</b> .....	feet per second	<b>SMAL</b> .....	Screening Model Action Levels
<b>ft</b> .....	feet	<b>SO<sub>x</sub></b> .....	sulfur oxides
<b>GACT</b> .....	Generally Available Control Technology	<b>SO<sub>2</sub></b> .....	sulfur dioxide
<b>GHG</b> .....	Greenhouse Gas	<b>tph</b> .....	tons per hour
<b>gpm</b> .....	gallons per minute	<b>tpy</b> .....	tons per year
<b>gr</b> .....	grains	<b>VMT</b> .....	vehicle miles traveled
<b>GWP</b> .....	Global Warming Potential	<b>VOC</b> .....	Volatile Organic Compound
<b>HAP</b> .....	Hazardous Air Pollutant		
<b>hr</b> .....	hour		
<b>hp</b> .....	horsepower		
<b>lb</b> .....	pound		
<b>lbs/hr</b> .....	pounds per hour		
<b>MACT</b> .....	Maximum Achievable Control Technology		
<b>µg/m<sup>3</sup></b> .....	micrograms per cubic meter		
<b>m/s</b> .....	meters per second		
<b>Mgal</b> .....	1,000 gallons		
<b>MW</b> .....	megawatt		
<b>MHDR</b> .....	maximum hourly design rate		

Mr. Ron Netemeyer  
Quality Control & Permit Manager  
APAC-Tennessee Inc., Memphis Division, APAC-Brickey's Stone  
13588 Brickey's Road  
Bloomsdale, MO 63627

RE: New Source Review Permit - Project Number: 2013-03-027

Dear Mr. Netemeyer:

Enclosed with this letter is your permit to construct. Please study it carefully. 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 with 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 have any questions regarding this please do not hesitate to contact Kathy Kolb, at the department's Air Pollution Control Program, P.O. Box 176, Jefferson City, MO 65102 or at (573) 751-4817. Thank you for your attention to this matter.

Sincerely,

AIR POLLUTION CONTROL PROGRAM

Susan Heckenkamp  
New Source Review Unit Chief

SH:kk1

Enclosures

c: Southeast Regional Office  
PAMS File: 2013-03-027

Permit Number: