

# STATE OF MISSOURI



## DEPARTMENT OF NATURAL RESOURCES

### MISSOURI AIR CONSERVATION COMMISSION

## PERMIT TO CONSTRUCT

Under the authority of RSMo 643 and the Federal Clean Air Act the applicant is authorized to construct the air contaminant source(s) described below, in accordance with the laws, rules and conditions as set forth herein.

Permit Number: **042016 - 010**

Project Number: 2016-01-038  
Installation ID: PORT-0731

Parent Company: APAC - Central, Inc.

Parent Company Address: P.O. Box 9208, Fayetteville, AR 72703

Installation Name: APAC - Central, Inc.

Installation Address: 706 Expressway Lane, Branson, MO 65616

Location Information: Taney County, S24/25 T23N R22W

Application for Authority to Construct was made for:  
Installation of a new asphalt plant rated at 400 tons per hour. 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.

Handwritten signature of Daronn A. Williams in cursive.

Prepared by  
Daronn A. Williams  
New Source Review Unit

Handwritten signature of Kyrna L. Moore in cursive.

Director or Designee  
Department of Natural Resources

APR 22 2016

Effective Date

## 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 Enforcement and Compliance Section of 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 Enforcement and Compliance Section of 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's 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 the permit application and this permit and permit review shall be kept at the installation address and shall be made available to Department's 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 using the contact information below.

### Contact Information:

Missouri Department of Natural Resources  
Air Pollution Control Program  
P.O. Box 176  
Jefferson City, MO 65102-0176  
(573) 751-4817

The regional office information can be found at the following website:

<http://dnr.mo.gov/regions/>

**GENERAL SPECIAL CONDITIONS:**

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

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*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. **Equipment Identification Requirement**  
APAC - Central, Inc. shall maintain 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 asphalt plant.
2. **Relocation of Portable Asphalt Plant**
  - A. APAC - Central, Inc. shall not be operated at any location longer than 24 consecutive months except if the Site Specific Special Conditions of this portable plant, PORT-0731, contain a nonroad engine requirement limiting the portable plant at the site specific location to 12 consecutive months.
  - B. A complete "Portable Source Relocation Request" application must be submitted to the Air Pollution Control Program prior to any relocation of this portable asphalt plant.
    - 1) If the portable asphalt plant is moving to a site previously permitted, and if the circumstances at the site have not changed, then the application must be received by the Air Pollution Control Program at least seven days prior to the relocation.
    - 2) If the portable asphalt plant is moving to a new site, or if circumstances at the site have changed (e.g. the site was only permitted for solitary operation and now another plant is located at the site), then the application must be received by the Air Pollution Control Program at least 21 days prior to the relocation. The application must include written notification of any concurrently operating plants.
3. **Record Keeping Requirement**  
APAC - Central, Inc. shall maintain all records required by this permit for not less than five years and shall make them available to any Missouri Department of Natural Resources' personnel upon request.
4. **Reporting Requirement**  
APAC - Central, Inc. 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.

**SITE SPECIFIC SPECIAL CONDITIONS:**

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

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*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."*

PORT ID Number: PORT-0731

Site ID Number: 213-P039

Site Name: Roark Creek Quarry

Site Address: 706 Expressway Lane, Branson, MO 65616

Site County: Taney County, S24/25 T23N R22W

1. Best Management Practices Requirement  
APAC - Central, Inc. shall control fugitive emissions from all of the haul roads and vehicular activity areas at this site by performing BMPs as defined in Attachment AA.
2. Ambient Air Impact Limitation
  - A. APAC - Central, Inc. 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 - Central, Inc. shall demonstrate compliance with Special Condition 2.A using Attachment A, Attachment B, or other equivalent form that has been approved by the Air Pollution Control Program, including electronic forms. APAC - Central, Inc. shall account for the impacts from other sources of PM<sub>10</sub> as instructed in the attachments.
3. Annual Emission Limit
  - A. APAC - Central, Inc. shall emit less than 10.0 tons of PM<sub>2.5</sub> in any 12-month period from PORT-0731.
  - B. APAC - Central, Inc. shall demonstrate compliance with Special Condition 3.A using Attachment C or another equivalent form that has been approved by the Air Pollution Control Program, including an electronic form.
4. Moisture Content Testing Requirement
  - A. APAC - Central, Inc. 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.

**SITE SPECIFIC SPECIAL CONDITIONS:**

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

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- 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 - Central, Inc. main office within 30 days of completion of the required test.
  - F. If the moisture content of the test is less than the moisture content in Special Condition 4.A, another test shall be performed within 15 days of the noncompliant test. If the results of that test is less than the moisture content in Special Condition 4.A, APAC - Central, Inc. 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.
  - G. In lieu of testing, APAC - Central, Inc. may obtain test results that demonstrate compliance with the moisture content in Special Condition 4.A from the supplier of the aggregate.
5. Control Device Requirement-Baghouse
- A. APAC - Central, Inc. shall control emissions from the drum dryer (EP-4) using baghouse as specified in the permit application.
  - B. The baghouse shall be operated and maintained in accordance with the manufacturer's specifications. The baghouse shall be equipped with a gauge or meter, which indicates the pressure drop across the control device. These gauges or meters shall be located such that Department of Natural Resources' employees may easily observe them.
  - C. Replacement filters for the baghouses shall be kept on hand at all times. The bags shall be made of fibers appropriate for operating conditions expected to occur (i.e. temperature limits, acidic and alkali resistance, and abrasion resistance).
  - D. APAC - Central, Inc. shall monitor and record the operating pressure drop across the baghouse at least once every 24 hours. The operating pressure drop shall be maintained within the design conditions specified by the manufacturer's performance warranty.

**SITE SPECIFIC SPECIAL CONDITIONS:**

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

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- E. APAC - Central, Inc. shall maintain a copy of the baghouse manufacturer's performance warranty on site.
- F. APAC - Central, Inc. shall maintain an operating and maintenance log for the baghouses which shall include the following:
  - 1) Incidents of malfunction, with impact on emissions, duration of event, probable cause, and corrective actions; and
  - 2) Maintenance activities, with inspection schedule, repair actions, and replacements, etc.
- 6. **Minimum Distance to Property Boundary Requirement**  
The drum dryer (EP-4), the plant's primary emission point, shall be located at least 250 feet from the nearest property boundary.
- 7. **Fuel Requirement**
  - A. APAC - Central, Inc. shall exclusively burn fuel with a sulfur content less than or equal to 0.50% by weight in their drum dryer (EP-4).
  - B. APAC - Central, Inc. shall exclusively burn diesel fuel with a sulfur content less than or equal to 0.0015% by weight in their asphalt heater (EP-7).
  - C. APAC - Central, Inc. shall demonstrate compliance with Special Condition 7.A and Special Condition 7.B by either obtaining records from the vendor of the fuel's sulfur content for each shipment of fuel received or by testing each shipment of fuel for the sulfur content in accordance with the method described in 10 CSR 10-6.040 *Reference Methods*.
  - D. APAC - Central, Inc. shall keep the records required by Special Condition 7.C with the unit and make them available for Department of Natural Resources' employees upon request.
- 8. **Record Keeping Requirement**  
APAC - Central, Inc. 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 - Central, Inc. 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: 2016-01-038

Installation ID Number: PORT-0731

Permit Number:

APAC - Central, Inc.  
706 Expressway Lane  
Branson, MO 65616

Complete: January 21, 2016

Parent Company:  
APAC - Central, Inc.  
P.O. Box 9208  
Fayetteville, AR 72703

Taney County, S24/25 T23N R22W

### PROJECT DESCRIPTION

APAC - Central, Inc. (APAC) has submitted an Application for Authority to Construct for the installation of a new portable asphalt plant (PORT-0731) that is rated at 400 tons per hour. This asphalt plant is manufactured by Astec and will be equipped with a 120 MMBtu/hour burner and a 1.2 MMBtu/hour asphalt cement heater. The drum dryer will be fueled by distillate fuel oil #4 (also known as waste oil) with a sulfur content up to 0.50% by weight. The asphalt cement heater will be fueled by distillate fuel oil #2 (also known as ultra-low sulfur diesel) with a sulfur content up to 0.0015% by weight. The rest of the plant will be powered by electricity.

This asphalt plant will initially operate at APAC's Roark Creek Quarry (213-P039) with a stationary rock-crushing plant owned by APAC. PORT-0061, a portable asphalt plant owned by APAC, also operates at this site. However, this plant will be dismantled and removed from the site upon the arrival of PORT-0731.

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 Taney County, an attainment area for all other criteria pollutants. This installation is on the List of Named Installations found in 10 CSR 10-6.020(3)(B), Table 2. Hot mix asphalt plants fall under Category 27. Fugitive emissions are counted toward major source applicability. However, Category 27 does not apply to the 100 tons per year major source level thresholds for construction permits. Therefore, the major source threshold for this asphalt plant is 250 tons per year.

No permits have been issued to APAC's PORT-0731 from the Air Pollution Control Program.

## TABLES

The table below summarizes the emissions of this project. The potential emissions of the process equipment, which excludes emissions from haul roads and wind erosion, are not site specific and should not vary from site to site. The potential emissions of the application represent the emissions of all equipment and activities assuming continuous operation (8760 hours per year). The conditioned potential emissions are based on a voluntary 10.0 ton per year PM<sub>2.5</sub> limit to avoid modeling and compliance to the NAAQS for PM<sub>10</sub>.

Table 1: Emissions Summary (tons per year)

Air Pollutant	De Minimis Level/SMAL	<sup>a</sup> Potential Emissions of the Process Equipment	Existing Actual Emissions	<sup>b</sup> Potential Emissions of the Application	Conditioned Potential Emissions
PM	25.0	64.73	N/A	182.45	33.24
PM <sub>10</sub>	15.0	43.91	N/A	80.32	14.63
PM <sub>2.5</sub>	10.0	40.73	N/A	54.89	< 10.00
SO <sub>x</sub>	40.0	141.88	N/A	141.88	25.85
NO <sub>x</sub>	40.0	170.25	N/A	170.25	31.02
VOC	40.0	84.27	N/A	84.27	15.35
CO	100.0	22.65	N/A	22.65	4.13
Formaldehyde	10.0/2.0 <sup>c</sup>	5.59	N/A	5.59	1.02
2-methylnaphthalene <sup>d</sup>	10.0/0.01 <sup>c</sup>	0.30	N/A	0.30	0.05
Lead Compounds	10.0/0.01 <sup>c</sup>	0.03	N/A	0.03	0.005
Total HAPs	25.0	18.00	N/A	18.00	3.28

N/A = Not Applicable

<sup>a</sup> Potential emissions of the process equipment exclude site specific haul road and storage pile emissions

<sup>b</sup> Includes site specific haul road and storage pile emissions

<sup>c</sup> SMAL

<sup>d</sup> 2-methylnaphthalene is a member of the Polycyclic Organic Matter (POM) HAP group.

Table 2: Ambient Air Quality Impact Analysis

Pollutant	NAAQS/RAL (µg/m <sup>3</sup> )	Averaging Time	<sup>a</sup> Maximum Modeled Impact (µg/m <sup>3</sup> )	Limited Impact (µg/m <sup>3</sup> )	Background (µg/m <sup>3</sup> )	<sup>b</sup> Daily Limit (tons/day)
<sup>c</sup> PM <sub>10</sub> (Solitary & Same)	150.0	24-hour	198.11	130.0	20.0	6,687
<sup>d</sup> PM <sub>10</sub> (separate)	150.0	24-hour	N/A	73.5	76.5	N/A
2-methylnaphthalene	23	24-hour	0.30	N/A	N/A	N/A
2-methylnaphthalene	2.3	Annual	0.01	N/A	N/A	N/A

N/A = Not Applicable

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

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

<sup>c</sup> The daily production limit of PORT-0731 is based on compliance with the NAAQS for PM<sub>10</sub>. However, the daily production limit of PORT-0731 during the same owner operating scenario is not determined because APAC can balance production between all plants they own and operate at this site.

<sup>d</sup> Operation with other plants that are not owned by APAC

The plant's drum dryer (EP-4) was modeled using the AERSCREEN screen modeling software. The stack characteristic entered into the modeled are listed in Table 3.

Table 3: AERSCREEN Input Parameters

Equipment Description	Stack Height (m)	Stack Inside Diameter (m)	Stack Gas Exit Velocity (m/s)	Stack Gas Exit Temperature (K)	Dispersion Coefficient
Drum Dryer	7.32	1.07	29.05	402.98	Rural

### 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 drum mix asphalt plant were calculated using emission factors from AP-42 Section 11.1 "Hot Mix Asphalt Plants," April 2004. SO<sub>x</sub> emissions were calculated using the SO<sub>2</sub> and SO<sub>3</sub> emission factors from AP-42 Section 1.3 "Fuel Oil Combustion," September 1998 and assuming half of the sulfur up to 0.1 pound per ton of product is absorbed into the product. The asphalt plant is controlled by a baghouse, so the fabric filter controlled emission factor was used to calculate particulate emissions. Emissions from plant load-out were calculated using predictive equations found in AP-42 Table 11.1-14. Default values were used for asphalt volatility and mix temperature. Emissions from the asphalt heater were calculated using emission factors from AP-42 Section 1.3. Emissions from aggregate handling 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 equal to or greater than 1.5% by weight.

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 2. 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.

In cases where the plant is providing material for a highway project and not located at an existing quarry, the ambient impact is evaluated in accordance with a memorandum issued by the Air Pollution Control Program titled "Permitting Asphalt/Concrete Plants for Temporary Highway Projects," dated April 10, 2000. This memorandum states that air quality should be analyzed at the nearest residence or location where the public could reasonably expected to be found instead of all ambient air. This practice generally allows for a less restrictive daily production level while protecting the public.

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 20.0 µg/m<sup>3</sup> of PM<sub>10</sub> in accordance with the Air Pollution Control Program's BMPs interim policy.

## OPERATING SCENARIOS

The plant is permitted to operate with other plants located at the site as long as the NAAQS for PM<sub>10</sub> is not exceeded. The following scenarios explain how APAC shall demonstrate compliance with the NAAQS for PM<sub>10</sub>.

- When no other plants are located at this site, which is referred to as solitary operation, APAC must calculate the daily impact of this plant and limit its impact below the NAAQS for PM<sub>10</sub> using Attachment A or another equivalent form.
- When plants that are owned by APAC, which are referred to as same owner plants, are located at the site, APAC must calculate the daily impact of each plant and limit the total impact of all plants to not exceed the NAAQS for PM<sub>10</sub> using Attachment A or another equivalent form.
- When plants that are not owned by APAC, which are referred to as separate owner plants, are located at the site, APAC 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 that are operating at the site. This total is limited to not exceed the NAAQS for PM<sub>10</sub>. APAC will limit the total impact of all plants they own and operate at the site to 73.5 µg/m<sup>3</sup> when any plants they do not own are located at the site. APAC is not permitted to operate with any plant that is not owned by APAC that has a separate owner background greater than 56.5 µg/m<sup>3</sup>. During this scenario, APAC shall use Attachment B, or another equivalent form, to demonstrate compliance with the NAAQS for PM<sub>10</sub>.

#### 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>2.5</sub> are conditioned below the 10.0 ton per year de minimis level and potential emissions of PM are above the de minimis level, but below major source levels. There are no modeling requirements for PM.

#### APPLICABLE REQUIREMENTS

APAC 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.
- *Restriction of Particulate Matter to the Ambient Air Beyond the Premises of Origin*, 10 CSR 10-6.170
- *Restriction of Emission of Odors*, 10 CSR 10-6.165

#### SPECIFIC REQUIREMENTS

- 40 CFR 60 Subpart I, "Standards of Performance for Hot Mix Asphalt Facilities" 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.

- *Control of Sulfur Dioxide Emissions*, 10 CSR 10-6.261

#### 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*, it is recommended that this permit be granted with special conditions.

#### PERMIT DOCUMENTS

The following documents are incorporated by reference into this permit:

- The Application for Authority to Construct form, dated January 18, 2016, received January 21, 2016, designating APAC - Central, Inc. as the owner and operator of the installation.







## 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 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 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>SDS</b> .....	Safety Data Sheet
<b>EU</b> .....	Emission Unit	<b>SIC</b> .....	Standard Industrial Classification
<b>fps</b> .....	feet per second	<b>SIP</b> .....	State Implementation Plan
<b>ft</b> .....	feet	<b>SMAL</b> .....	Screening Model Action Levels
<b>GACT</b> .....	Generally Available Control Technology	<b>SO<sub>x</sub></b> .....	sulfur oxides
<b>GHG</b> .....	Greenhouse Gas	<b>SO<sub>2</sub></b> .....	sulfur dioxide
<b>gpm</b> .....	gallons per minute	<b>tph</b> .....	tons per hour
<b>gr</b> .....	grains	<b>tpy</b> .....	tons per year
<b>GWP</b> .....	Global Warming Potential	<b>VMT</b> .....	vehicle miles traveled
<b>HAP</b> .....	Hazardous Air Pollutant	<b>VOC</b> .....	Volatile Organic Compound
<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. Jeff Sorrells  
Environmental Manager  
APAC - Central, Inc.  
P.O. Box 9208  
Fayetteville, AR 72703

RE: New Source Review Permit - Project Number: 2016-01-038  
Project Number: 2016-01-038; Installation Number: PORT-0731

Dear Mr. Sorrells:

APAC - Central, Inc. (APAC) has submitted an Application for Authority to Construct for the installation of a new portable asphalt plant (PORT-0731) that is rated at 400 tons per hour. This asphalt plant is manufactured by Astec and will be equipped with a 120 MMBtu/hour burner and a 1.2 MMBtu/hour asphalt cement heater. The drum dryer will be fueled by distillate fuel oil #4 (also known as waste oil) with a sulfur content up to 0.50% by weight. The asphalt cement heater will be fueled by distillate fuel oil #2 (also known as ultra-low sulfur diesel) with a sulfur content up to 0.0015% by weight. The rest of the plant will be powered by electricity.

This asphalt plant will initially operate at APAC's Roark Creek Quarry (213-P039) with a stationary rock-crushing plant owned by APAC. PORT-0061, a portable asphalt plant owned by APAC, also operates at this site. However, this plant will be dismantled and removed from the site upon the arrival of PORT-0731.

Enclosed with this letter is your permit to construct. Please study it carefully and refer to Appendix A for a list of common abbreviations and acronyms used in the permit. Also, note the special conditions on the accompanying pages. The document entitled, "Review of Application for Authority to Construct," is part of the permit and should be kept with this permit in your files. Operation in accordance with these conditions and your new source review permit application 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.

This permit may include requirements with which you may not be familiar. If you would like the department to meet with you to discuss how to understand and satisfy the requirements contained in this permit, an appointment referred to as a Compliance Assistance Visit (CAV) can be set up with you. To request a CAV, please contact your local regional office or fill out an online request. The regional office contact information can be found at the following website: <http://dnr.mo.gov/regions/>. The online CAV request can be found at <http://dnr.mo.gov/cav/compliance.htm>.

If you were adversely affected by this permit decision, you may be entitled to pursue an appeal before the administrative hearing commission pursuant to Sections 621.250 and 643.075.6 RSMo. To appeal, you must file a petition with the administrative hearing commission within thirty days after the date this decision was mailed or the date it was delivered, whichever date was earlier. If any such petition is sent by registered mail or certified mail, it will be deemed filed on the date it is mailed; if it is sent by any method other than registered mail or certified mail, it will be deemed filed on the date it is received by the administrative hearing commission, whose contact information is: Administrative Hearing Commission, United States Post Office Building, 131 West High Street, Third Floor, P.O. Box 1557, Jefferson City, Missouri 65102, phone: 573-751-2422, fax: 573-751-5018, website: [www.oa.mo.gov/ahc](http://www.oa.mo.gov/ahc).

If you have any questions regarding this permit, please do not hesitate to contact Daronn A. Williams, 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:dwj

Enclosures

c: Southwest Regional Office  
PAMS File: 2016-01-038

Permit Number: