DEPARTMENT OF NATURAL RESOURCES
MISSOURI AIR CONSERVATION COMMISSION

PERMIT TO CONSTRUCT

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

Permit Number: 032015-013
Parent Company: APAC-Missouri, Inc.
Parent Company Address: PO Box 1117, Columbia, MO 65025
Installation Name: APAC-Missouri, Inc.
Installation Address: 2.7 miles east of Brookfield on Highway 36, Brookfield, MO 64628
Location Information: Linn County, S15 T37N R19W

Application for Authority to Construct was made for: Making PORT-0150 a stationary asphalt plant near Brookfield, Missouri. This review was conducted in accordance with Section (5), Missouri State Rule 10 CSR 10-6.060, Construction Permits Required.

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

MAR 16 2015
EFFECTIVE DATE

DIRECTOR OR DESIGNEE
DEPARTMENT OF NATURAL RESOURCES
STANDARD CONDITIONS:

Permission to construct may be revoked if you fail to begin construction or modification within two years from the effective date of this permit. Permittee should notify the Air Pollution Control Program if construction or modification is not started within two years after the effective date of this permit, or if construction or modification is suspended for one year or more.

You will be in violation of 10 CSR 10-6.060 if you fail to adhere to the specifications and conditions listed in your application, this permit and the project review. 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 sources(s), but in no way relieves you of your obligation to comply with all applicable provisions of the Missouri Air Conservation Law, regulations of the Missouri Department of Natural Resources and other applicable federal, state and local laws and ordinances.

The Air Pollution Control Program invites your questions regarding this air pollution permit. Please contact the Construction Permit Unit at (573) 751-4817. If you prefer to write, please address your correspondence to the Missouri Department of Natural Resources, Air Pollution Control Program, P.O. Box 176, Jefferson City, MO 65102-0176, attention: Construction Permit Unit.
SPECIAL CONDITIONS:
The permittee is authorized to construct and operate subject to the following special conditions:

The special conditions listed in this permit were included based on the authority granted the Missouri Air Pollution Control Program by the Missouri Air Conservation Law (specifically 643.075) and by the Missouri Rules listed in Title 10, Division 10 of the Code of State Regulations (specifically 10 CSR 10-6.060). For specific details regarding conditions, see 10 CSR 10-6.060 paragraph (12)(A)10. “Conditions required by permitting authority.”

1. Best Management Practices Requirement
   APAC-Missouri, 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-Missouri, Inc. shall not cause an exceedance of the NAAQS for PM$_{10}$ of 150.0 µg/m$^3$ 24-hour average in ambient air.
   B. APAC-Missouri, Inc. shall demonstrate compliance with Special Condition 2.A using Attachment A or other equivalent forms that have been approved by the Air Pollution Control Program, including electronic forms.

3. Annual Emission Limit
   A. APAC-Missouri, Inc. shall emit less than 40.0 tons of NOx in any 12-month period from the entire installation.
   B. APAC-Missouri, Inc. shall demonstrate compliance with Special Condition 3.A using Attachment B or another equivalent form that has been approved by the Air Pollution Control Program, including an electronic form.

4. Control Device Requirement-Baghouse
   A. APAC-Missouri, 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 baghouse shall be kept on hand at all times. The bags shall be made of fibers appropriate for operating conditions expected to occur (i.e. temperature limits, acidic and alkali resistance, and abrasion resistance).
SPECIAL CONDITIONS:
The permittee is authorized to construct and operate subject to the following special conditions:

D. APAC-Missouri, 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.

E. APAC-Missouri, Inc. shall maintain a copy of the baghouse manufacturer’s performance warranty on site.

F. APAC-Missouri, Inc. shall maintain an operating and maintenance log for the baghouse which shall include the following:
   1) Incidents of malfunction, with impact on emissions, duration of event, probable cause, and corrective actions; and
   2) Maintenance activities, with inspection schedule, repair actions, and replacements, etc.

5. Fuel Requirement—Drum Dryer/Asphalt Heater
   A. APAC-Missouri, Inc. shall burn fuel in their Drum Dryer (EP-4) with a sulfur content less than or equal to 0.5 percent by weight.
   B. APAC-Missouri shall burn exclusively ultra low sulfur diesel in the diesel generator (EP-8) with a sulfur content less than or equal to 15 parts per million by weight (15 ppm).
   C. APAC-Missouri, Inc. shall burn in their Asphalt Heater (EP-7) propane during asphalt production.
   D. APAC-Missouri, Inc. shall demonstrate compliance with Special Condition 5.A and 5.B by obtaining records of the fuel's sulfur content from the vendor 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.
   E. APAC-Missouri, Inc. shall keep the records required by Special Condition 5.D with the units and make them available for Department of Natural Resources’ employees upon request.

6. Moisture Content Testing Requirement
   A. APAC-Missouri, 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.
SPECIAL CONDITIONS:
The permittee is authorized to construct and operate subject to the following special conditions:

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-Missouri, Inc. 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 6.A, another test may be performed within 15 days of the noncompliant test. If the results of that test also exceed the limit, APAC-Missouri, 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-Missouri, Inc. may obtain test results that demonstrate compliance with the moisture content in Special Condition 5.A from the supplier of the aggregate.

7. Minimum Distance to Property Boundary Requirement
   The primary emission point, drum dryer (EP-4) shall be located at least 100 feet from the nearest property boundary.

8. Concurrent Operation Restriction
   APAC-Missouri, Inc. is prohibited from operating whenever other plants are located at the site.

9. Record Keeping Requirement
   APAC-Missouri, 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.

10. Reporting Requirement
    APAC-Missouri, 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.
APAC-Missouri, Inc. Complete: November 18, 2014
2.7 miles east of Brookfield on Highway 36
Brookfield, MO 64628

Parent Company:
APAC-Missouri, Inc.
PO Box 1117
Columbia, MO 65025

Linn County, S15 T37N R19W

PROJECT DESCRIPTION

APAC - Missouri (APAC) requests to change the status of PORT-0150 from a portable plant to a stationary plant. The portable plant has been at this location longer than two years and it appears that the plant will remain at this location for an indefinite period of time. The plant was originally permitted to operate at the Brookfield, Missouri location under Project Number 2012-07-025 to support a MoDOT project which has been completed. There were no other projects contracted by APAC that necessitated this plant to move to another location. Therefore, APAC plans to keep PORT-0150 at this site until it is needed here or elsewhere. As of issuance of this permit, PORT-0150 is not operating at this site, but will start-up in the near future.

According to Permit # 0399-025B, PORT-0150 is rated at 300 tons per hour, and was located to this site owned by APAC – Missouri in Linn County (S15 T37N R19W). This site is near the intersection of Jonquil Road and Jade Drive. PORT-0150 will operate a drum dryer that has a 96.8 million British thermal unit per hour (MMBtu/hr) burner. An asphalt heater rated at 1.0 MMBtu/hr is used to heat the asphalt. A diesel engine used is rated at 1800 horsepower will be used to power the equipment of this plant. It is no longer considered a non-road engine. The particulate emissions from the drum dryer will be controlled by a baghouse.

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 Linn County, an attainment area for all criteria pollutants.

This installation is on the List of Named Installations found in 10 CSR 10-6.020(3)(B),
Table 2. Fugitive emissions are counted toward major source applicability. However, Category 27 does not apply to the 100 tons per year major source level thresholds. Therefore, the major source threshold for this asphalt plant is 250 tons per year.

**TABLES**

The following permits have been issued to APAC-Missouri, Inc. from the Air Pollution Control Program. There were numerous Section 4: Relocate to New Site permits into addition to the permits listed in Table 1.

Table 1: Permit History

<table>
<thead>
<tr>
<th>Permit Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>0594-001</td>
<td>Sec 5 &amp; 6: De miminis and Minor Permit (Lake Ozark Construction, Inc.)</td>
</tr>
<tr>
<td>0399-025</td>
<td>Asphalt plant conveyer and silo (now APAC-Richardson Bass Division)</td>
</tr>
</tbody>
</table>

The table below summarizes the emissions of this project. The potential emissions of the process equipment, which excluded emissions from haul roads and wind erosion, are not site specific. The existing actual emissions were taken from the 2014 EIQ. 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 include emissions from sources that will limit their production to ensure compliance with the annual emission limit.

Table 2: Emissions Summary (tons per year)

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>PM</td>
<td>25.0</td>
<td>53.42</td>
<td>N/A</td>
<td>136.46</td>
<td>22.43</td>
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<tr>
<td>PM$_{10}$</td>
<td>15.0</td>
<td>36.10</td>
<td>1.21</td>
<td>64.98</td>
<td>10.68</td>
</tr>
<tr>
<td>PM$_{2.5}$</td>
<td>10.0</td>
<td>33.66</td>
<td>0.44</td>
<td>45.66</td>
<td>7.51</td>
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<tr>
<td>SO$_x$</td>
<td>40.0</td>
<td>235.63</td>
<td>0.67</td>
<td>235.63</td>
<td>38.74</td>
</tr>
<tr>
<td>NO$_x$</td>
<td>40.0</td>
<td>243.30</td>
<td>2.21</td>
<td>243.30</td>
<td>&lt;40.0</td>
</tr>
<tr>
<td>VOC</td>
<td>40.0</td>
<td>68.30</td>
<td>1.27</td>
<td>68.30</td>
<td>11.23</td>
</tr>
<tr>
<td>CO</td>
<td>100.0</td>
<td>67.16</td>
<td>5.16</td>
<td>67.16</td>
<td>11.04</td>
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<td>GHG (CO$_2$e)</td>
<td>N/A</td>
<td>79,470.21</td>
<td>N/A</td>
<td>79,470.21</td>
<td>13,065.49</td>
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<tr>
<td>GHG (mass)</td>
<td>0.0 / 100.0 / 250.0</td>
<td>79,048.19</td>
<td>N/A</td>
<td>79,048.19</td>
<td>12,996.10</td>
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<tr>
<td>Formaldehyde</td>
<td>10.0/2.0$^b$</td>
<td>4.19</td>
<td>N/A</td>
<td>4.19</td>
<td>0.69</td>
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<tr>
<td>2-methylnapthalene$^c$</td>
<td>10.0/0.01$^b$</td>
<td>0.22</td>
<td>N/A</td>
<td>0.22</td>
<td>0.037</td>
</tr>
<tr>
<td>Lead Compounds</td>
<td>10.0/0.01$^b$</td>
<td>0.02</td>
<td>N/A</td>
<td>0.02</td>
<td>0.003</td>
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<tr>
<td>Total HAPs</td>
<td>25.0</td>
<td>13.59</td>
<td>0.0</td>
<td>13.59</td>
<td>2.23</td>
</tr>
</tbody>
</table>

N/A = Not applicable  
$^a$ Includes site specific haul road and storage pile emissions  
$^b$ SMAL  
$^c$ 2-methylnapthalene is a member of the Polycyclic Organic Matter (POM) HAP group.
Table 3 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$_{10}$.

Table 3: Ambient Air Quality Impact Analysis

<table>
<thead>
<tr>
<th>Pollutant</th>
<th>NAAQS/ RAL (µg/m$^3$)</th>
<th>Averaging Time</th>
<th>$^a$Maximum Modeled Impact (µg/m$^3$)</th>
<th>Limited Impact (µg/m$^3$)</th>
<th>Background (µg/m$^3$)</th>
<th>$^b$Daily Limit (tons/day)</th>
</tr>
</thead>
<tbody>
<tr>
<td>$^c$PM$_{10}$</td>
<td>150.0</td>
<td>24-hour</td>
<td>363.90</td>
<td>130.0</td>
<td>20.0</td>
<td>3,067.9</td>
</tr>
<tr>
<td>(same)</td>
<td></td>
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<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2-methylnaphthalene</td>
<td>23.0</td>
<td>24-hour</td>
<td>0.5987</td>
<td>0.2551</td>
<td>N/A</td>
<td>N/A</td>
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<tr>
<td>2-methylnaphthalene</td>
<td>2.3</td>
<td>Annual</td>
<td>0.0998</td>
<td>0.0164</td>
<td>N/A</td>
<td>N/A</td>
</tr>
</tbody>
</table>

$^a$Modeled impact at maximum capacity with controls

$^b$Indirect limit based on compliance with NAAQS.

$^c$Solitary operation

$^d$Operation with other plants that are not owned by APAC-Missouri, Inc.

$^e$Annual standard is 10 times the annual RAL

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$_X$ emissions were calculated using the SO$_2$ and SO$_3$ 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 PM$_{10}$ 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 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\textsubscript{10} and a 40% control efficiency for PM\textsubscript{2.5} 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 3. The Air Pollution Control Program requires an AAQIA of PM\textsubscript{10} for all asphalt, concrete and rock-crushing plants regardless of the level of PM\textsubscript{10} emissions if a permit is required. An AAQIA is required for other pollutants if their emissions exceed their respective de minimis or screening model action level (SMAL). The AAQIA was performed using the Air Pollution Control Program’s generic nomographs and when appropriate the EPA modeling software AERSCREEN. For each pollutant that was modeled, the maximum concentration that occurs at or beyond the site boundary was compared to the NAAQS or RAL for the pollutant. If during continuous operation the modeled concentration of a pollutant is greater than the applicable NAAQS or RAL, the plant’s production is limited to ensure compliance with the standard.

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\textsuperscript{3} of PM\textsubscript{10} in accordance with the Air Pollution Control Program’s BMPs interim policy.

**PERMIT RULE APPLICABILITY**

This review was conducted in accordance with Section (5) of Missouri State Rule 10 CSR 10-6.060, *Construction Permits Required*. Potential emissions of NOx are conditioned below de minimis levels. PM, PM\textsubscript{10}, PM\textsubscript{2.5}, SO\textsubscript{x}, and VOCs are indirectly reduced to de minimis.

**APPLICABLE REQUIREMENTS**

APAC-Missouri, Inc. 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. This installation is required to submit a full EIQ for the 2016 calendar year.

- A Basic Operating Permit is required for this installation.

- 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

- Restriction of Emission of Particulate Matter From Industrial Processes, 10 CSR 10-6.400 does not apply because the drum dryer is controlled by a baghouse. All other sources are fugitive.

- 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.

- Restriction of Emission of Sulfur Compounds, 10 CSR 10-6.260
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.

________________________________   ________________________________
Kathy Kolb Date
New Source Review Unit

PERMIT DOCUMENTS

The following documents are incorporated by reference into this permit:

- The Application for Authority to Construct form, dated November 7, 2014, received November 7, 2014, designating APAC-Missouri, Inc. as the owner and operator of the installation.


- 2014 Emissions Inventory Questionnaire (EIQ)
attachment A: ambient impact tracking sheet

for solitary operation

APAC-missouri, Inc. 115-0034

project number: 2014-11-026

this sheet covers the period from ____________________ to ____________________ (copy as needed)

(Month, Day Year) (Month, Day Year)

APAC-missouri, Inc.
115-0034
Linn county

same owner plant
plant name:
plant ID:
permit #:

same owner plant
plant name:
plant ID:
permit #:

same owner plant
plant name:
plant ID:
permit #:

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<th>Daily Production (tons)</th>
<th>Impact Factor (µg/m³/ton)</th>
<th>Impact¹ (µg/m³)</th>
<th>Impact² (µg/m³)</th>
<th>Impact² (µg/m³)</th>
<th>Background (µg/m³)</th>
<th>Total Impact³ (µg/m³)</th>
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<td>N/A</td>
<td>20.0</td>
<td></td>
</tr>
</tbody>
</table>

¹Calculate the impact for 115-0034 by multiplying the daily production by the impact factor.
²Input the impact for any plants owned by APAC-missouri, Inc. that are operating on the site.
³Calculate the total impact by adding the applicable impacts and background. A total of 150 µg/m³ or less is necessary for compliance.
Attachment B: NOx Annual Emissions Tracking Sheet
APAC-Missouri, Inc. 115-0034
Project Number: 2014-11-026
Permit Number:

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

<table>
<thead>
<tr>
<th>Month</th>
<th>Production (tons)</th>
<th>Emission Factor (lb/ton)</th>
<th>Monthly Emissions$^1$ (lbs)</th>
<th>Monthly Emissions$^2$ (tons)</th>
<th>12-Month Total Emissions$^3$ (tons)</th>
</tr>
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$^1$Multiply the monthly production by the emission factor.
$^2$Divide the monthly emissions (lbs) by 2000.
$^3$Add the monthly emissions (tons) to the sum of the monthly emissions from the previous eleven months. A total of less than 40.0 tons of NOx is necessary for compliance.
Attachment AA: Best Management Practices

Haul roads and vehicular activity areas shall be maintained in accordance with at least one of the following options when the 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 rational for not watering (e.g. freezing conditions or not operating).
   E. The operator shall keep these records with the plant for not less than five (5) years, and the operator shall make these records available to Department of Natural Resources’ personnel upon request.
APPENDIX A
Abbreviations and Acronyms

% ............ percent
°F ............ degrees Fahrenheit
acfm ......... actual cubic feet per minute
BACT ....... Best Available Control Technology
BMPs ....... Best Management Practices
Btu.......... British thermal unit
CAM ........ Compliance Assurance Monitoring
CAS ........ Chemical Abstracts Service
CEMS ....... Continuous Emission Monitor System
CFR ........ Code of Federal Regulations
CO .......... carbon monoxide
CO₂ .......... carbon dioxide
CO₂e ........ carbon dioxide equivalent
COMS ....... Continuous Opacity Monitoring System
CSR .......... Code of State Regulations
dscf .......... dry standard cubic feet
EIQ ........ Emission Inventory Questionnaire
EP .......... Emission Point
EPA ......... Environmental Protection Agency
EU .......... Emission Unit
fps .......... feet per second
ft ............ feet
GACT ....... Generally Available Control Technology
GHG .......... Greenhouse Gas
gpm .......... gallons per minute
gr ............ grains
GWP ........ Global Warming Potential
HAP ........ Hazardous Air Pollutant
hr .......... hour
hp ........... horsepower
lb .......... pound
lbs/hr ...... pounds per hour
MACT ....... Maximum Achievable Control Technology
μg/m³ ...... micrograms per cubic meter
m/s .......... meters per second
Mgal ...... 1,000 gallons
MW .......... megawatt
MHDR ....... maximum hourly design rate

MMBtu..... Million British thermal units
MMCF ..... million cubic feet
MSDS ..... Material Safety Data Sheet
NAAQS ... National Ambient Air Quality Standards
NESHAPs ... National Emissions Standards for Hazardous Air Pollutants
NOₓ ........ nitrogen oxides
NSPS ...... New Source Performance Standards
NSR ...... New Source Review
PM ........ particulate matter
PM₂.₅ ...... particulate matter less than 2.5 microns in aerodynamic diameter
PM₁₀ ...... particulate matter less than 10 microns in aerodynamic diameter
ppm ...... parts per million
PSD ....... Prevention of Significant Deterioration
PTE ........ potential to emit
RACT ...... Reasonable Available Control Technology
RAL ....... Risk Assessment Level
SCC ........ Source Classification Code
scfm ...... standard cubic feet per minute
SDS ....... Safety Data Sheet
SIC ........ Standard Industrial Classification
SIP ....... State Implementation Plan
SMAL .... Screening Model Action Levels
SOₓ ........ sulfur oxides
SO₂ ........ sulfur dioxide
tph .......... tons per hour
tpy .......... tons per year
VMT ........ vehicle miles traveled
VOC ........ Volatile Organic Compound
Ms. Diane Tucker  
CSP  
APAC-Missouri, Inc.  
PO Box 1117  
Columbia, MO 65025


Dear Ms. Tucker:

Enclosed with this letter is your permit to construct. Please study it carefully and refer to Appendix A for a list of common abbreviations and acronyms used in the permit. Also, note the special conditions on the accompanying pages. The document entitled, "Review of Application for Authority to Construct," is part of the permit and should be kept with this permit in your files. Operation in accordance with these conditions, your new source review permit application and with your new Basic Operating Permit is necessary for continued compliance. The reverse side of your permit certificate has important information concerning standard permit conditions and your rights and obligations under the laws and regulations of the State of Missouri.

If you were adversely affected by this permit decision, you may be entitled to pursue an appeal before the administrative hearing commission pursuant to Sections 621.250 and 643.075.6 RSMo. To appeal, you must file a petition with the administrative hearing commission within thirty days after the date this decision was mailed or the date it was delivered, whichever date was earlier. If any such petition is sent by registered mail or certified mail, it will be deemed filed on the date it is mailed; if it is sent by any method other than registered mail or certified mail, it will be deemed filed on the date it is received by the administrative hearing commission, whose contact information is: Administrative Hearing Commission, Truman State Office Building, Room 640, 301 W. High Street, P.O. Box 1557, Jefferson City, Missouri 65102, phone: 573-751-2422, fax: 573-751-5018, website: www.oa.mo.gov/ahc.

If you have any questions, 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.

Sincerely,

AIR POLLUTION CONTROL PROGRAM

Susan Heckenkamp  
New Source Review Unit Chief

SH:shl

Enclosures

c: Northeast Regional Office  
PAMS File: 2014-11-026  
Permit Number: