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: 042007-004  Project Number: 2007-01-077
Owner: AmerenUE  PORT-0586
Owner’s Address: 1901 Chouteau Ave, St. Louis, MO 63103
Installation Name: AmerenUE
Installation Address: Route 1, Box 112, Annapolis, MO 63620
Location Information: Reynolds County, S22, T33N, R2E

Application for Authority to Construct was made for:

The installation of a new portable concrete plant. The portable plant consists of two concrete operations. One operation has a maximum hourly design rate (MHDR) of 1,200 tons per hour (tph). The other operation has an MHDR of 900 tph. Each operation is independent of each other. Best Management Practices will be used to control fugitive emissions from haul roads and storage piles. 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 (listed as attachments starting on page 2) are applicable to this permit.

APR - 6 2007
EFFECTIVE DATE

DIRECTOR OR DESIGNEE
DEPARTMENT OF NATURAL RESOURCES

MO 780-1204 (1-03)
STANDARD CONDITIONS:

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

You will be in violation of 10 CSR 10-6.060 if you fail to adhere to the specifications and conditions listed in your application, this permit and the project review. Specifically, all air contaminant control devices shall be operated and maintained as specified in the application, associated plans and specifications.

You must notify the Air Pollution Control Program of the anticipated date of start up of this (these) air contaminant source(s). The information must be made available not more than 60 days but at least 30 days in advance of this date. Also, you must notify the Department of Natural Resources Regional Office responsible for the area within which you are located within 15 days after the actual start up of this (these) air contaminant source(s).

A copy of this permit and permit review shall be kept at the installation address and shall be made available to Department of Natural Resources' personnel upon request.

You may appeal this permit or any of the listed Special Conditions as provided in RSMo 643.075. If you choose to appeal, the Air Pollution Control Program must receive your written declaration within 30 days of receipt of this permit.

If you choose not to appeal, this certificate, the project review, your application and associated correspondence constitutes your permit to construct. The permit allows you to construct and operate your air contaminant source(s), but in no way relieves you of your obligation to comply with all applicable provisions of the Missouri Air Conservation Law, regulations of the Missouri Department of Natural Resources and other applicable federal, state and local laws and ordinances.

The Department of Natural Resources has established the Outreach and Assistance Center to help in completing future applications or fielding complaints about the permitting process. You are invited to contact them at 1-800-361-4827 or (573) 526-6627, or in writing addressed to Outreach and Assistance Center, P.O. Box 176, Jefferson City, MO 65102-0176.

The Air Pollution Control Program invites your questions regarding this air pollution permit. Please contact the Construction Permit Unit at (573) 751-4817. If you prefer to write, please address your correspondence to the Air Pollution Control Program, P.O. Box 176, Jefferson City, MO 65102-0176, attention Construction Permit Unit.
The installation of a new portable concrete plant. The portable plant consists of two concrete operations. One operation has a maximum hourly design rate (MHDR) of 1,200 tons per hour (tph). The other operation has an MHDR of 900 tph. Each operation is independent of each other. Best Management Practices will be used to control fugitive emissions from haul roads and storage piles. This review was conducted in accordance with Section (6), Missouri State Rule 10 CSR 10-6.060, Construction Permits Required.
GENERAL SPECIAL CONDITIONS:
The permittee is authorized to construct and operate subject to the following special conditions:

The special conditions listed in this permit were included based on the authority granted the Missouri Air Pollution Control Program by the Missouri Air Conservation Law (specifically 643.075); by the Missouri Rules listed in Title 10, Division 10 of the Codes of State Regulations (specifically 10 CSR 10-6.060); by 10 CSR 10-6.060 paragraph (12)(A)10. “Conditions required by permitting authority”; by 10 CSR 10-6.010 “Ambient Air Quality Standards” and 10 CSR 10-6.060 subsections (5)(D) and (6)(A); and by control measures requested by the applicant, in their permit application, to reduce the amount of air pollutants being emitted, in accordance with 10 CSR 10-6.060 paragraph (6)(E)3. Furthermore, one or more of the Subparts of 40 CFR Part 60, New Source Performance Standards (NSPS), applies to this installation.

1. Portable Equipment Identification Requirement
   To assure that each component is properly identified as being a part of this portable concrete plant, PORT-0586, AmerenUE shall provide and maintain suitable, easily read permanent markings on each component of the plant. These markings shall be the equipment's serial number or a company assigned identification number that uniquely identifies the individual component. These identification numbers must be submitted to the Air Pollution Control Program no later than 15 days after start-up of the portable concrete plant.

2. Relocation of Portable Concrete Plant
   A. The portable concrete plant shall not be operated at any site location longer than 24 consecutive months without an intervening relocation.
   B. A complete “Portable Source Relocation Request” application must be submitted to the Air Pollution Control Program prior to any relocation of this portable concrete plant.
      1.) If the portable concrete plant is moving to a site previously permitted, and if there are no other new plants at the site, then the application must be received by the Air Pollution Control Program at least seven (7) days prior to the relocation.
      2.) If the portable concrete plant is moving to a new site, or if there are other plants or equipment at the site that have not been evaluated for concurrent operation, then the application must be received by the Air Pollution Control Program at least twenty-one (21) days prior to the relocation. The application must include written notification of any concurrently operating plants.

3. Reporting Requirement
   The operator(s) shall report to the Air Pollution Control Program Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, no later than ten (10) days after any exceedances of the limitations imposed by this permit.

4. Record Keeping Requirement
   The operator(s) shall maintain all records required by this permit for not less than five (5) years and shall make them available to any Missouri Department of Natural Resources' personnel upon request.
SITE-SPECIFIC SPECIAL CONDITIONS:
The permittee is authorized to construct and operate subject to the following special conditions:

Site ID No.: 179-0032  
Site Name: AmerenUE Taum Sauk  
Site Address: Route 1, Box 112, Annapolis, MO 63620  
Site County: Reynolds County, S22, T33N, R2E

1. Best Management Practices
   AmerenUE shall control fugitive emissions at this site by performing Best Management Practices, which include the usage of paving, chemical dust suppressants, or documented watering. These practices are defined in Attachment AA. The following Best Management Practice control methods shall be used for each haul roads and storage pile vehicular activity areas to control fugitive emissions from these sources.
   A. Fly Ash Haul Road (HR #1) and Cement Haul Road (HR#3): The fly ash haul road and cement haul road are both allowed a maximum of 500 feet of unpaved portion. The rest of the haul road must be completely paved.
      1. The operator(s) shall also control the paved portion of the haul road by usage of documented watering.
      2. The unpaved portion shall be controlled by the usage of chemical dust suppressants or documented watering.
   B. Aggregate Haul Road (HR #2): The aggregate haul road must be completely paved.
   C. Fly Ash Storage Pile (Pile #1): The fugitive emissions from the vehicular activity area around the fly ash storage pile shall be controlled by usage of chemical dust suppressants or documented watering.
   D. Aggregate Storage Pile (Pile #2): The vehicular activity area around the aggregate storage pile shall be completely paved and watered (documented watering).

2. National Ambient Air Quality Standards (NAAQS) Limitation for Particulate Matter Less Than Ten Microns in Diameter (PM10)
   A. The operator(s) for AmerenUE’s portable concrete plant (PORT-0586) shall ensure, while operating at this site, that the ambient impact of PM10 at or beyond the nearest property boundary does not exceed 150 µg/m³ in any 24-hour period, in accordance with the Federal NAAQS requirements (40 CFR 50.6).
   B. The portable concrete plant is permitted to operate under four (4) scenarios: Solitary, concurrent (same owner), concurrent (separate owners), and concurrent (same and separate owners) operations. The total daily ambient impact of PM10 at this site shall include the combined impact of the portable concrete plant and any ambient background concentration from installations or equipment located on the same site as the portable concrete plant.
      1. During solitary operations, the operators of the portable concrete plant do not need to maintain a daily record of material processed and the resulting daily PM10 ambient impact to show compliance with site specific condition 2A.
      2. During concurrent (same owner) operations, the operators shall demonstrate compliance with site specific conditions 2A by maintaining a daily record of material processed and the resulting daily PM10 ambient impact. Attachment A, Daily Ambient PM10 Impact Tracking Record, Concurrent (Same Owner) Operations, or other equivalent form(s), shall be used for this purpose.
      3. During concurrent (separate owners) operations, the operators of the portable concrete plant do not need to maintain a daily record of material processed and the resulting daily PM10 ambient impact to show compliance with site specific condition 2A.
      4. During concurrent (same and separate owner) operations, the operators shall demonstrate compliance with site specific conditions 2A by maintaining a daily record of material processed and the resulting daily PM10 ambient impact. Attachment B, Daily Ambient PM10 Impact Tracking Record, Concurrent (Same and Separate Owners) Operations, or other equivalent form(s), shall be used for this purpose.

3. Annual Emission Limit of Particulate Matter Less Than Ten Microns in Diameter (PM10)
   A. The operator(s) shall ensure that AmerenUE’s portable concrete plant emits less than 50 tons of PM10 into the atmosphere in any 12-month period.
SITE-SPECIFIC SPECIAL CONDITIONS:
The permittee is authorized to construct and operate subject to the following special conditions:

B. To demonstrate compliance, the operator(s) shall maintain a daily record of material processed and PM$_{10}$. Attachment C, *Monthly PM$_{10}$ Emissions Tracking Record*, or other equivalent form(s), will be used for this purpose.

4. Baghouse(s) Control System Requirements
   A. AmerenUE shall install and operate baghouse(s) to restrict the emission of particulate matter. The baghouse(s) must be used whenever these units are in operation. The baghouse(s) shall be installed on the following units: Cement Unloading (EU3), Aggregate Weigh Hopper Loading (EU5), and Mixer Loading (EU6).
   B. AmerenUE shall install instruments to monitor the operating pressure drop across the baghouse. All instruments and control equipment shall be calibrated, maintained and operated according to the manufacturer’s preventive maintenance recommendations. The operator(s) shall check and record the pressure drop across the baghouse filter once per operating day during silo loading. The operating pressure drop shall be maintained within the design conditions specified by the manufacturer’s performance warranty.
   C. The operator(s) shall conduct and document a quarterly inspection and maintenance of the baghouse for structural component failures, for leaks and wear, and for the cleaning sequence of the baghouse. Replacement bags shall be kept on hand at all times to replace defective bags (The bags shall be made of fibers appropriate for the operating conditions expected to occur). All inspections, corrective actions, and instrument calibrations shall be recorded.

5. Moisture Content Testing of Storage Piles Requirement
   A. The moisture content of the stockpiled rock will reduce particulate emissions. AmerenUE claimed the moisture content of the stored rock to be greater than or equal to 1.5 wt.% which shall be verified by testing.
   B. Testing shall be conducted according to approved methods, such as those prescribed by the *American Society for Testing Materials (ASTM D-2216 or C-566)*, EPA AP-42 Appendix C.2, or other method(s) approved by the Director. AmerenUE provided document of testing. Testing shall be conducted at least once every two years after the initial test, during the months of June through September, while the portable rock crushing plant is active at this site.
   C. The operator shall obtain test samples from each storage pile area. The written analytical report shall include the raw data and moisture content (wt.% of each sample, the test date, and the original signature of the individual performing the test. Within 30 days of completion of the required tests, the report shall be filed on-site or at the AmerenUE main office.
   D. If the moisture content result of the first test is less than 1.5 wt.%, a second test must be performed within 30 days. If the result of the second test is less than 1.5 wt.%, AmerenUE shall apply for a new construction permit to account for the revised information or install wet spray devices on the affected units.

6. Restriction on the Use of Diesel Engine(s)
The concrete plant shall power its equipment using electrical line power and not diesel engines/generators. If the company decides to switch to diesel engines/generators, a new permit review will be required. An emergency diesel engine/generator is permitted to operate in case of power failure. The emergency diesel engine/generator shall not operate more than 500 hours per year. If it operates for more than 500 hours during the year, it will no longer be exempt and AmerenUE must apply for a new permit review.

7. Restriction on Minimum Distance to Nearest Property Boundary
The primary emission point of the portable concrete plant, which is the mixer loadings (EU6) for each operation, shall be located at least 2,300 feet from the nearest property boundary whenever it is operating at this site.
AmerenUE is in the process of evaluating the feasibility of rebuilding the Taum Sauk upper reservoir. Even though AmerenUE has not made a firm decision to pursue the rebuild, it would like have the ability to start construction as soon as a decision has been made. Therefore, AmerenUE has asked the Air Pollution Control Program to permit the plants necessary for rebuilding of the reservoir.

The rebuild of the reservoir will require the operation of five plants.

1.) A 1,400 tons per hour (tph) rock-crushing plant.
2.) A primary Roller Compacted Concrete (RCC) Plant with two RCC operations totaling 2,100 tph or less.
3.) A secondary RCC plant rated 480 tph or less.
4.) A conventional concrete plant rated 600 tph or less.
5.) An asphalt plant rated 400 tph or less.

This permit is written for the primary RCC plant. The RCC plant consists of two separate RCC operations. The two operations are identical except for the maximum hourly design rates (MHDR). An RCC operations is different than a traditional concrete plant. Raw aggregates are shipped from a concurrently operating rock-crushing plant and loaded into storage piles. From the storage piles, the raw aggregates are transferred to bins and weigh hoppers to be loaded into the mixer. Cement and Fly ash are brought from offsite and stored onsite. Cement is stored in a silo and fly ash in a temporary storage pile. The cement is pneumatically loaded into the mixer while the fly ash will be loaded from the storage pile by a front-end loader. The fly ash are saturated and has moisture content between twenty-two (22) and forty-eight (48) percent, according to moisture content tests. The required water is transported from an outside source to the plant’s water surge tank and fed into the mixing chamber. All ingredients (aggregates, cement, fly ash, water) enter at the beginning of the mixing chamber and the product exits the plant by means of a discharge belt.

The equipment are powered with primary electrical power and not diesel engines. If AmerenUE decides to switch to diesel engines, a new permit review will be required. An emergency diesel engine/generator is permitted to be used in case of power failures. Emergency generators/engines are exempt from permitting according to Missouri State Rules CSR 10-6.061 Construction Permit Exemptions (3)(A)2.BB., but their ambient impact and emissions should still be taken into account. The daily PM$_{10}$ ambient impact from the operation of the diesel engine/generator is included in the ambient impact analysis and the PM$_{10}$ emissions is included in the emissions evaluation.

The emission points are listed in the attached spreadsheet summary. This installation is not on the List of Named Installations [10 CSR 10-6.020(3)(B), Table 2]. The installation is located in Reynolds County, an attainment area for all criteria air pollutants.

The RCC plant is permitted to operate under four (4) separate scenarios.

- **Solitary Operation:** Operation when the RCC plant is the only plant located at the site.
- **Concurrent (Same Owner) Operations:** Operations when the RCC plant is located at this site at the same time as other concrete, asphalt, rock-crushing, or rock-screening plants permitted under AmerenUE.
- **Concurrent (Separate Owners) Operations:** Operations when the RCC plant is located at this site at the same time as other concrete, asphalt, rock-crushing, or rock-screening plants permitted under other company’s names.
- **Concurrent (Same and Separate Owners) Operations:** Operations when the RCC plant is located at this site at the same time as other concrete, asphalt, rock-crushing, or rock-screening plants permitted under AmerenUE AND other concrete, asphalt, rock-crushing, or rock-screening plants permitted under other company’s names.

The plants that will operate at this site are owned by other companies, but AmerenUE asked for some of the permits to be issued under its own name. For all permits issued to AmerenUE, AmerenUE will be responsible for keeping all plants in compliance with applicable air pollution control rules, Department of Natural Resources’
rules, or any other federal, state, or local agency regulations. All compliance records shall be kept with the plant or at the AmerenUE main corporate office and be made available to Department of Natural Resources personnel upon request.

There is a Roland Machinery concrete crusher at the site. By itself, this concrete crusher does not need a permit because its emissions are below de minimis levels. This no permit required determination is based on the fact that no haul roads and storage piles will be used. If the company decides, in the future, to add haul roads and/or storage piles, a new construction permit application must be submitted to the Air Pollution Control Program. Furthermore, the PM$_{10}$ ambient impact of this concrete crusher must be taken into account in the ambient impact analysis. The concrete crusher is 2,500 feet away from the nearest property boundary and a PM$_{10}$ ambient impact factor was developed using this distance. This ambient impact factor is included in record keep sheets, Attachment A and B, and should be used to calculate the ambient impact from the concrete crushing plant.

Best Management Practices (BMPs) will be used at the site to control fugitive emissions from haul roads and aggregate storage piles. However, in order to acquire a control efficiency of 95% instead of the 90% usually given for the use of BMPs, AmerenUE has proposed to not only pave some haul roads and vehicular activity areas around storage piles, but also to carry out documented watering on these haul roads and storage pile vehicular activity areas. Controls to be used on each haul road and storage pile vehicular activity area are as follows:

- Fly Ash Haul Road (HR #1) and Cement Haul Road (HR#3): These two haul roads are allowed a maximum of 500 feet of unpaved portions. The rest of the haul roads must be completely paved. The paved portion shall also be controlled with documented watering. The unpaved portion shall be controlled with chemical dust suppressants or documented watering.
- Aggregate Haul Road (HR #2): All of the Aggregate Haul Road must be completely paved.
- Fly Ash Storage Pile (Pile #1): The fugitive emissions from the fly ash storage pile shall be controlled by usage of documented watering or chemical dust suppressants.
- Aggregate Storage Piles (Pile #2): The vehicular activity area around the aggregate storage piles must be completely paved.

The site has had one (1) permit issued to it in the past. It is a temporary permit (permit #092006-011, Project 2006-09-022) issued to AmerenUE to allow the construction of a concrete plant for building test pads. The permit expires in March 31, 2007.

**EMISSIONS EVALUATION**

Criteria air pollutants will be emitted from this operation. The main air pollutant of concern is PM$_{10}$. The potential emissions were calculated from the maximum hourly design rate (MHDR) of the equipment, appropriate emission factors, control device efficiencies, and the limiting operating hours at MHDR. The sources of the emission factors and control efficiencies are listed in the section “Permit Documents”. Based on the conditioned potential emissions, the operation is considered a minor source under 10 CSR 10-6.060 section (6).

The portable concrete plant has an annual emission limit of less than 50 tons of PM$_{10}$ in any 12-month period. A composite PM$_{10}$ emission factor was developed for the portable concrete plant. The composite emission factor is incorporated into the monthly record keeping table, Attachment C. If the conditioned potential emissions of PM$_{10}$ were 50 tons per year or greater, then the owner would be required to submit dispersion modeling results.

Since the two (2) concrete operations are not identical (they have different MHDRs), one PM$_{10}$ emission factor is given to each operation to calculate the annual PM$_{10}$ emissions.

The plant is allowed to operate an emergency diesel engine/generator with a design rate of 1,000 hp to power its equipment in case of power failures. Even though the emergency generator is exempt from permitting, its emission should be taken into account. The emission analysis is based on 500 hours of operation per year. If the diesel engine/generator operates for more than 500 hours per year, it will no longer be exempt and AmerenUE must apply for a new permit review.
Table 2: Emissions Summary (tons per year)

<table>
<thead>
<tr>
<th>Air Pollutant</th>
<th>Regulatory De Minimis Levels</th>
<th>Existing Potential Emissions</th>
<th>Existing Actual Emissions</th>
<th>Potential Emissions of the Application</th>
<th>*New Installation Conditioned Potential</th>
<th>Emission Factor (lb/ton)</th>
</tr>
</thead>
<tbody>
<tr>
<td>PM$_{10}$</td>
<td>15.0</td>
<td>N/A</td>
<td>N/A</td>
<td>63.30</td>
<td>&lt;50</td>
<td>**0.0071/0.0066/0.0003</td>
</tr>
<tr>
<td>SO$_x$</td>
<td>40.0</td>
<td>N/A</td>
<td>N/A</td>
<td>2.30</td>
<td>2.30</td>
<td>N/A</td>
</tr>
<tr>
<td>NO$_x$</td>
<td>40.0</td>
<td>N/A</td>
<td>N/A</td>
<td>8.01</td>
<td>8.01</td>
<td>N/A</td>
</tr>
<tr>
<td>VOC</td>
<td>40.0</td>
<td>N/A</td>
<td>N/A</td>
<td>2.87</td>
<td>2.87</td>
<td>N/A</td>
</tr>
<tr>
<td>CO</td>
<td>100.0</td>
<td>N/A</td>
<td>N/A</td>
<td>7.56</td>
<td>7.56</td>
<td>N/A</td>
</tr>
<tr>
<td>HAPs</td>
<td>10.0/25.0</td>
<td>N/A</td>
<td>N/A</td>
<td>0.008</td>
<td>0.008</td>
<td>N/A</td>
</tr>
</tbody>
</table>

Note: N/A = Not Applicable
* Conditioned potential based on limit in permit conditions. Other pollutants based on 500 hours of emergency engine/generator operation.
** 0.0071 lbs/ton is the emission factor for the 1,200 tph concrete operation and 0.0066 lbs/ton is the emission factor for the 900 tph concrete operation. 0.0003 lbs/ton is the emission factor for the emergency diesel engine/generator.

AMBIENT AIR QUALITY IMPACT ANALYSIS

Screening tools were used to evaluate the ambient air impact of the hourly emissions from this operation. The ambient impact was evaluated at a distance of 2,300 feet to the nearest property boundary. The ambient impact at this site shall not exceed the National Ambient Air Quality Standard (NAAQS) of 150 µg/m$^3$ of PM$_{10}$ at or beyond the nearest property boundary in any single 24-hour period. The screening tools were used to develop an ambient impact factor for the concrete plant. The ambient impact factors are incorporated into the daily record keeping tables, Attachment A and B.

For sources agreeing to use Best Management Practices (BMPs), as defined in Attachment AA, haul roads and stockpiles are not modeled with screening tools. Instead, they are addressed as a background level of 20 µg/m$^3$ of PM$_{10}$. To ensure conformity with NAAQS, the remaining process emissions are limited to an impact of less than 130 µg/m$^3$ of PM$_{10}$ at or beyond the nearest property boundary.

During solitary and concurrent (separate owners) operations, the concrete plant can operate for twenty-four hours without violating the NAAQS. Therefore, the plant will not be required to show compliance by keeping a record of its material processed and the resulting daily PM$_{10}$ ambient impact. During concurrent (same owner) and concurrent (same and separate owners) operations, the plant will be required to show compliance with NAAQS by not only tracking its own daily PM$_{10}$ ambient impact but also the daily PM$_{10}$ ambient impact of all other plants permitted under AmerenUE.

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

<table>
<thead>
<tr>
<th>Operation</th>
<th>Ambient Impact Factor (µg/m$^3$/ton)</th>
<th>Modeled Impact (µg/m$^3$)</th>
<th>*Background (µg/m$^3$)</th>
<th>NAAQS (µg/m$^3$)</th>
<th>Daily Production Limit (tons)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Solitary</td>
<td>0.0002</td>
<td>9.30</td>
<td>20.00</td>
<td>150.00</td>
<td>50,400</td>
</tr>
<tr>
<td>2. Concurrent (Same Owner)</td>
<td>0.0002</td>
<td>**</td>
<td>20.00</td>
<td>150.00</td>
<td>**</td>
</tr>
<tr>
<td>3. Concurrent (Separate Owners)</td>
<td>0.0002</td>
<td>9.30</td>
<td>140.70</td>
<td>150.00</td>
<td>50,400</td>
</tr>
<tr>
<td>4. Concurrent (Same and Separate Owners)</td>
<td>0.0002</td>
<td>**</td>
<td>90.00</td>
<td>150.00</td>
<td>**</td>
</tr>
</tbody>
</table>

* During solitary and concurrent (same owner) operations, background PM$_{10}$ level of 20.00 µg/m$^3$ from haul roads and storage piles. During concurrent (separate owners) operations, background PM$_{10}$ level of 20.00 µg/m$^3$ from haul roads and storage piles and 120.70µg/m$^3$ from the operations of plants permitted under other company's names. During concurrent (same and separate) owner operations, background PM$_{10}$ level of 20.00 µg/m$^3$ from haul roads and storage piles and 70.00 µg/m$^3$ from the operations of plants permitted under other company's names.
** The operator(s) must balance production among concurrently operating plants, with the ambient impact factors for each, such that NAAQS is not exceeded. Ambient impact factors from other concurrently operating plants can be obtained from the operators of these plants.
APPLICABLE REQUIREMENTS

The owner is subject to compliance with the following applicable requirements. The Missouri Air Conservation Laws and Regulations should be consulted for specific record keeping, monitoring, and reporting requirements.

- Submission of Emission Data, Emission Fees and Process Information, 10 CSR 10-6.110.
- No Operating Permit is required for this portable concrete plant.
- Restriction of Particulate Matter to the Ambient Air Beyond the Premises of Origin, 10 CSR 10-6.170
- Restriction of Emission of Visible Air Contaminants, 10 CSR 10-6.220
- Restriction of Emission of Odors, 10 CSR 10-3.090
- Restriction of Emission of Particulate Matter From Industrial Processes, 10 CSR 10-6.400
- Restriction of Emission of Sulfur Compounds, 10 CSR 10-6.260
- None of the New Source Performance Standards (NSPS) apply to the proposed equipment.
- The National Emission Standards for Hazardous Air Pollutants (NESHAPs) and the currently promulgated Maximum Achievable Control Technology (MACT) regulations do not apply to the proposed equipment.

STAFF RECOMMENDATION

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

Chia-Wei Young
Environmental Engineer

PERMIT DOCUMENTS

The following documents are incorporated by reference into this permit:

- The Application for Authority to Construct form, designating AmerenUE as the owner and operator of the installation.
- Environmental Protection Agency (EPA) AP-42, Compilation of Air Pollutant Emission Factors; Volume I, Stationary Point and Area Sources, Fifth Edition.
- Spreadsheet calculations of potential-to-emit and ambient impact.
- Southeast Regional Office Site Survey.
- Best Management Practices
- Moisture content testing results submitted by AmerenUE.
## Attachment A: Daily Ambient PM\textsubscript{10} Impact Tracking Record, Concurrent (Same Owners) Tracking Record

### AmerenUE, PORT-0586 – Portable Concrete Plant

**Project Number:** 2007-01-077  
**County, CSTR:** Reynolds County (S22, T33N, R2E)  
**Primary Unit Size:** 2,100 tph  
**Distance to Nearest Property Boundary:** 2,300 feet

This sheet covers the period from _______________ to _______________ (Month, Day, Year)  
*(Copy this sheet as needed.)*

<table>
<thead>
<tr>
<th>Date</th>
<th>Plant Name: AmerenUE</th>
<th>Plant ID Number: PORT-0586 Project # 2007-01-076</th>
<th>Plant ID</th>
<th>Plant ID</th>
<th>Emergency Diesel Engine</th>
<th>Roland Machinery Concrete Crusher.</th>
<th>Background PM\textsubscript{10} Level (µg/m\textsuperscript{3})</th>
<th>TOTAL PM\textsubscript{10} Level (µg/m\textsuperscript{3})</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Daily Production (tons)</td>
<td>Ambient Impact Factor (µg/m\textsuperscript{3}ton)</td>
<td>(^1) Daily PM\textsubscript{10} Impact (µg/m\textsuperscript{3})</td>
<td>(^2) Daily PM\textsubscript{10} Impact (µg/m\textsuperscript{3})</td>
<td>(^3) Daily PM\textsubscript{10} Impact (µg/m\textsuperscript{3})</td>
<td>Daily Production (tons)</td>
<td>Ambient Impact Factor (µg/m\textsuperscript{3}ton)</td>
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**Note 1:** The Daily PM\textsubscript{10} Impact (µg/m\textsuperscript{3}) for the concrete plant is calculated by multiplying the Daily Production (tons) by the matching Ambient Impact Factor.

**Note 2:** The Daily PM\textsubscript{10} Impact (µg/m\textsuperscript{3}) for other asphalt, concrete, rock-crushing, or rock-screening plants permitted under AmerenUE shall be obtained from the operators of these plants.

**Note 3:** The Daily PM\textsubscript{10} Impact (µg/m\textsuperscript{3}) for the emergency diesel engine/generator is calculated by multiplying the Daily Production (tons) by the matching Ambient Impact Factor. A value of zero (0) should be entered if the emergency engine/generator is not operating.

**Note 4:** The Daily PM\textsubscript{10} Impact (µg/m\textsuperscript{3}) of Roland Machinery concrete crushing plant is calculated by multiplying its Daily Production (tons) by the matching Ambient Impact Factor. A value of zero (0) should be entered if the concrete crushing plant is not operating.

**Note 5:** Background PM\textsubscript{10} Level (µg/m\textsuperscript{3}) is from Haul Roads and Stockpiles.

**Note 6:** The TOTAL PM\textsubscript{10} Level (µg/m\textsuperscript{3}) is calculated by summing the Daily PM\textsubscript{10} Ambient Impact(s) and the Background PM\textsubscript{10} Level. A TOTAL PM\textsubscript{10} Level of less than 150 µg/m\textsuperscript{3} in any 24-hour period indicates compliance.
Attachment B: Daily Ambient PM$_{10}$ Impact Tracking Record, Concurrent (Same and Separate Owners) Operations
AmerenUE, PORT-0586 – Portable Concrete Plant

Project Number: 2007-01-077
County, CSTR: Reynolds County (S22, T33N, R2E)
Primary Unit Size: 2,100 tph
Distance to Nearest Property Boundary: 2,300 feet

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

<table>
<thead>
<tr>
<th>Date</th>
<th>Plant Name: AmerenUE</th>
<th>Plant ID Number: PORT-0586</th>
<th>Daily Production (tons)</th>
<th>Ambient Impact Factor (µg/m$^3$/ton)</th>
<th>¹Daily PM$_{10}$ Impact (µg/m$^3$)</th>
<th>²Daily PM$_{10}$ Impact (µg/m$^3$)</th>
<th>³Daily PM$_{10}$ Impact (µg/m$^3$)</th>
<th>Daily Production (tons)</th>
<th>Ambient Impact Factor (µg/m$^3$/ton)</th>
<th>⁴Daily PM$_{10}$ Impact (µg/m$^3$)</th>
<th>Roland Machinery Concrete Crusher.</th>
<th>⁵Back-ground PM$_{10}$ Level (µg/m$^3$)</th>
<th>⁶TOTAL PM$_{10}$ Level (µg/m$^3$)</th>
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Note 1: The Daily PM$_{10}$ Impact (µg/m$^3$) for the concrete plant is calculated by multiplying the Daily Production (tons) by the matching Ambient Impact Factor.
Note 2: The Daily PM$_{10}$ Impact (µg/m$^3$) for other asphalt, concrete, rock-crushing, or rock-screening plants permitted under AmerenUE shall be obtained from the operators of these plants.
Note 3: The Daily PM$_{10}$ Impact (µg/m$^3$) for emergency diesel engine/generator is calculated by multiplying the Daily Production (tons) by the matching Ambient Impact Factor. A value of zero (0) should be used if the diesel engine/generator is not operating.
Note 3: The Daily PM$_{10}$ Impact (µg/m$^3$) of Roland Machinery concrete crushing plant is calculated by multiplying its Daily Production (tons) by the matching Ambient Impact Factor. A value of zero (0) should be used if the concrete crushing plant is not operating.
Note 4: Background PM$_{10}$ Level (µg/m$^3$) is from Haul Roads and Stockpiles and the operations of other asphalt, concrete, rock-crushing, or rock-screening plants permitted under other company’s names.
Note 5: The TOTAL PM$_{10}$ Level (µg/m$^3$) is calculated by summing the Daily PM$_{10}$ Ambient Impact(s) and the Background PM$_{10}$ Level. A TOTAL PM$_{10}$ Level of less than 150 µg/m$^3$ in any 24-hour period indicates compliance.
## Attachment C: PM$_{10}$ Emissions Tracking Record

### AmerenUE, PORT-0586 – Portable Concrete Plant

**Project Number:** 2007-01-077  
**County, CSTR:** Reynolds County (S22, T33N, R2E)  
**Primary Unit Size:** 2,100 tph  
**Distance to Nearest Property Boundary:** 2,300 feet

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

<table>
<thead>
<tr>
<th>Month</th>
<th>AmerenUE PORT-0586 Project # 2007-01-077 Concrete Operation (1,200 tph)</th>
<th>Plant Name: Plant ID: Permit #: Concrete Operation (900 tph)</th>
<th>Emergency Diesel Generator/Engine</th>
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<tr>
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<td>PM$_{10}$ Emission Factor (lbs/ton)</td>
<td>12-Month PM$_{10}$ Emissions (tons/year)</td>
<td>12-Month PM$_{10}$ Emissions (tons)</td>
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<td>Monthly Production (tons)</td>
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**Note 1:** The Monthly Emissions (tons) for each operation are calculated by multiplying the Monthly Production (tons) by the Composite Emission Factor (lbs/ton) and dividing by 2,000.

**Note 2:** The Total Monthly Emissions (tons) are calculated by summing the Monthly Emissions (tons) from each operation.

**Note 3:** The 12-Month Emissions (tons/year) are a rolling total calculated by adding the Month’s Total Monthly Emissions (tons) to the Total Monthly Emissions (tons) of the previous eleven (11) months. A total of less than 50 tons in any consecutive 12-month period indicates compliance.

**Note 4:** For use only when emergency diesel engine/generator is operating. A value of zero (0) should be used when the engine/generator is not operating.
Attachment AA: Best Management Practices (BMPs) - Construction Industry
Fugitive Emissions

Construction Industry Sites covered by the Interim Relief Policy shall maintain Best Management Control Practices (BMPs) for fugitive emission areas at their installations when in operation. Options for BMPs are at least one of the following:

For Haul Roads:

1. **Pavement of Road Surfaces** –
   A. The operator(s) may pave all or any portion of the haul roads with materials such as asphalt, concrete, and/or other material(s) after receiving approval from the program. The pavement will be applied in accordance with industry standards for such pavement so as to achieve "Control of Fugitive Emissions" while the plant is operating.
   B. Maintenance and/or repair of the road surface will be conducted as necessary to ensure that the physical integrity of the pavement is adequate to achieve control of fugitive emissions from these areas while the plant is operating.
   C. The operator(s) shall periodically water, wash and/or otherwise clean all of the paved portions of the haul road(s) as necessary to achieve control of fugitive emissions from these areas while the plant is operating.

2. **Usage of Chemical Dust Suppressants** –
   A. The operator(s) shall apply a chemical dust suppressant (such as magnesium chloride, calcium chloride, lignosulfonates, etc.) to all the unpaved portions of the haul roads. The suppressant will be applied in accordance with the manufacturer’s suggested application rate (if available) and re-applied as necessary to achieve control of fugitive emissions from these areas while the plant is operating.
   B. The quantities of the chemical dust suppressant shall be applied, re-applied and/or maintained sufficient to achieve control of fugitive emissions from these areas while the plant is operating.
   C. The operator(s) shall record the time, date and the amount of material applied for each application of the chemical dust suppressant agent on the above areas. The operator(s) shall keep these records with the plant for not less than five (5) years, and the operator(s) shall make these records available to Department of Natural Resources personnel upon request.

3. **Usage of Documented Watering** –
   A. The operator(s) shall control the fugitive emissions from all the unpaved portions of the haul roads at the installation by consistently and correctly using the application of a water spray. Documented watering will be applied in accordance with a recommended application rate of 100 gallons per day per 1,000 square feet of unpaved/untreated surface area of haul roads as necessary to achieve control of fugitive emissions from these areas while the plant is operating. For example, the operator(s) shall calculate the total square feet of unpaved vehicle activity area requiring control on any particular day, divide that product by 1,000, and multiply the quotient by 100 gallons for that day.
   B. The operator(s) shall maintain a log that documents daily water applications. This log shall include, but is not limited to, date and volumes (e.g., number of tanker applications and/or total gallons used) of water application. The log shall also record rationale for not applying water on day(s) the plant is in operation (e.g., meteorological situations, precipitation events, freezing, etc.).
   C. Meteorological precipitation of any kind, (e.g. a quarter inch or more rainfall, sleet, snow, and/or freeze thaw conditions) which is sufficient in the amount or condition to achieve control of fugitive emissions from these areas while the plant is operating.
   D. Watering may also be suspended when the ground is frozen, during periods of freezing conditions when watering would be inadvisable for traffic safety reasons, or when there will be no traffic on the roads. The operator(s) shall record a brief description of such events in the same log as the documented watering.
   E. The operator(s) shall record the date and the amount of water applied for each application on the above areas. The operator(s) shall keep these records with the plant for not less than five (5) years, and the operator(s) shall make these records available to Department of Natural Resources personnel upon request.

1 For purposes of this document, Control of Fugitive Emissions means to control particulate matter that is not collected by a capture system and visible emissions to the extent necessary to prevent violations of the air pollution law or regulation. (Note: control of visible emission is not the only factor to consider in protection of ambient air quality.)
For Vehicle Activity Areas around Open Storage Piles:

1. **Pavement of Stockpile Vehicle Activity Surfaces** –
   A. The operator(s) may pave all or any portion of the vehicle activity areas around the storage piles with materials such as asphalt, concrete, and/or other material(s) after receiving approval from the program. The pavement will be applied in accordance with industry standards for such pavement so as to achieve control of fugitive emissions while the plant is operating.
   B. Maintenance and/or repair of the road surface will be conducted as necessary to ensure that the physical integrity of the pavement is adequate to achieve control of fugitive emissions from these areas while the plant is operating.
   C. The operator(s) shall periodically water, wash and/or otherwise clean all of the paved portions of the vehicle activity areas around the storage piles as necessary to achieve control of fugitive emissions from these areas while the plant is operating.

2. **Usage of Chemical Dust Suppressants** –
   A. The operator(s) shall apply a chemical dust suppressant (such as magnesium chloride, calcium chloride, lignosulfonates, etc.) to all the vehicle activity areas around the open storage piles. The suppressant will be applied in accordance with the manufacturer’s suggested application rate (if available) and re-applied as necessary to achieve control of fugitive emissions from these areas while the plant is operating.
   B. The quantities of the chemical dust suppressant shall be applied, re-applied and/or maintained sufficient to achieve control of fugitive emissions from these areas while the plant is operating.
   C. The operator(s) shall record the time, date and the amount of material applied for each application of the chemical dust suppressant agent on the above areas. The operator(s) shall keep these records with the plant for not less than five (5) years, and the operator(s) shall make these records available to Department of Natural Resources personnel upon request.

3. **Usage of Documented Watering** –
   A. The operator(s) shall control the fugitive emissions from all the vehicle activity areas around the storage piles at the installation by consistently and correctly using the application of a water spray. Documented watering will be applied in accordance with a recommended application rate of 100 gallons per day per 1,000 square feet of unpaved/untreated surface area of vehicle activity areas around the storage piles as necessary to achieve control of fugitive emissions from these areas while the plant is operating. (Refer to example for documented watering of haul roads.)
   B. The operator(s) shall maintain a log that documents daily water applications. This log shall include, but is not limited to, date and volumes (e.g., number of tanker applications and/or total gallons used) of water application. The log shall also record rationale for not applying water on day(s) the plant is in operations (e.g., meteorological situations, precipitation events, freezing, etc.)
   C. Meteorological precipitation of any kind, (e.g. a quarter inch or more rainfall, sleet, snow, and/or freeze thaw conditions) which is sufficient in the amount or condition to achieve control of fugitive emissions from these areas while the plant is operating.
   D. Watering may also be suspended when the ground is frozen, during periods of freezing conditions when watering would be inadvisable for traffic safety reasons, or when there will be no traffic on the roads. The operator(s) shall record a brief description of such events in the same log as the documented watering.
   E. The operator(s) shall record the date and the amount of water applied for each application on the above areas. The operator(s) shall keep these records with the plant for not less than five (5) years, and the operator(s) shall make these records available to Department of Natural Resources personnel upon request.
Mr. Kenneth J. Anderson  
Principal Engineer  
AmerenUE  
1901 Chouteau Ave  
St. Louis, MO 63103

RE: New Source Review Permit - Project Number: 2007-01-077

Dear Mr. Anderson:

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

Operation in accordance with the conditions and requirements in your permit and the New Source Review application submitted for project 2007-01-077 is necessary for continued compliance. The section of the permit entitled “Technical Review of Application for Authority to Construct” should not be separated from the main portion of your permit. The entire permit must be retained in your files. The reverse side of your permit certificate has important information concerning standard permit conditions and your rights and obligations under the laws and regulations of the State of Missouri.

If you have any questions regarding this permit, please do not hesitate to contact me at (573) 751-4817, or you may write to the Department of Natural Resources’ Air Pollution Control Program, P.O. Box 176, Jefferson City, Missouri 65102. Thank you for your time and attention to this matter.

Sincerely,

AIR POLLUTION CONTROL PROGRAM

Kendall B. Hale  
New Source Review Unit Chief

KBH: cwyl

Enclosures

c: Southeast Regional Office  
PAMS File: 2007-01-077  
Permit Number: