

**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: 042017-009

Project Number: 2016-11-056  
Installation ID: 099-0156

Parent Company: Simpson Construction Materials

Parent Company Address: P.O. Box 250, Valley Park, MO 63088

Installation Name: Simpson Construction Materials

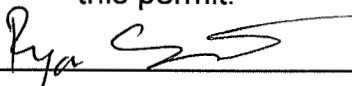
Installation Address: 1799 Cecos Lane, Arnold, MO 63010

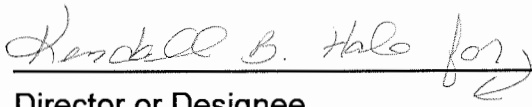
Location Information: Jefferson County (S24, T43N, R5E)

Application for Authority to Construct was made for:  
The installation of a batch mix asphalt plant. This review was conducted in accordance with Section (6), Missouri State Rule 10 CSR 10-6.060, *Construction Permits Required*.

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

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

  
Prepared by  
Ryan Schott  
New Source Review Unit

  
Director or Designee  
Department of Natural Resources  
APR 21 2017

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 startup 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 startup 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/>

**SITE SPECIFIC SPECIAL CONDITIONS:**

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

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

1. Annual PM<sub>10</sub> Emission Limit
  - A. Simpson Construction Materials shall emit less than 15.0 tons of PM<sub>10</sub> in any 12-month period from the entire installation (see Table 1).
  - B. Simpson Construction Materials shall demonstrate compliance with Special Condition 1.A using Attachment A or another equivalent form that has been approved by the Air Pollution Control Program, including an electronic form.
2. Best Management Practices Requirement

Simpson Construction Materials shall control fugitive emissions from all of the haul roads and vehicular activity areas at this site by performing BMPs, as defined in Attachment B.
3. Moisture Content Testing Requirement
  - A. Simpson Construction Materials shall verify that the moisture content of the processed rock is greater than or equal to 1.5% by weight.
  - B. Testing shall be conducted according to the method prescribed by the American Society for Testing Materials (ASTM) D-2216, C-566 or another method approved by the Director.
  - C. The initial test shall be conducted no later than 45 days after the start of operation. A second test shall be performed the calendar year following the initial test during the months of July or August.
  - D. The test samples shall be taken from rock that has been processed by the plant or from each source of aggregate (e.g. quarry).
  - E. The written analytical report shall include the raw data and moisture content of each sample, the test date and the original signature of the individual performing the test. The report shall be filed on-site or at the Simpson Construction Materials main office within 30 days of completion of the required test.

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**SITE SPECIFIC SPECIAL CONDITIONS:**

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

- F. If the moisture content of either of the two tests is less than the moisture content in Special Condition 3.A, another test may be performed within 15 days of the noncompliant test. If the results of that test is less than the moisture content in Special Condition 3.A, Simpson Construction Materials 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, Simpson Construction Materials may obtain test results that demonstrate compliance with the moisture content in Special Condition 3.A from the supplier of the aggregate.
4. Control Device Requirement – Baghouse
- A. Simpson Construction Materials shall control emissions from the drum dryer (EP-4) using a 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. This gauge or meter shall be located such that Department of Natural Resources' employees may easily observe it.
- 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).
- D. Simpson Construction Materials shall monitor and record the operating pressure drop across the baghouse at least once every 24 hours, while the plant is operating. The operating pressure drop shall be maintained within the design conditions specified by the manufacturer's performance warranty.
- E. Simpson Construction Materials shall maintain a copy of the baghouse manufacturer's performance warranty on site.
- F. Simpson Construction Materials 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.

**SITE SPECIFIC SPECIAL CONDITIONS:**

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

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5. Fuel Requirement

- A. Simpson Construction Materials shall burn either natural gas or fuel oil with a sulfur content less than or equal to 0.03% by weight in the drum dryer (EP-4).
- B. Simpson Construction Materials shall burn natural gas, propane, or fuel oil with a sulfur content less than or equal to 0.0015% by weight in the asphalt heater (EP-5).
- C. Simpson Construction Materials shall demonstrate compliance with Special Conditions 5.A & 5.B by obtaining records of the fuel oil'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*.

6. Record Keeping and Reporting Requirements

- A. Simpson Construction Materials 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.
- B. Simpson Construction Materials 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: 2016-11-056  
Installation ID Number: 099-0156

Permit Number: 042017 - 009

Installation Address:  
Simpson Construction Materials  
1799 Cecos Lane  
Arnold, MO 63010

Parent Company:  
Simpson Construction Materials  
P.O. Box 250  
Valley Park, MO 63088

Jefferson County (S24, T43N, R5E)

PROJECT DESCRIPTION

Simpson Construction Materials is constructing a new stationary batch mix asphalt plant at their South Quarry in Arnold, Missouri. The facility will be comprised of the emission points listed in Table 1.

Table 1. Facility Emission Units

Emission Point	Description	MHDR (tons/hr)	Emission Point	Description	MHDR (tons/hr)
EP-1	Raw Material Haul Road	300	EP-7	Hot Asphalt Silo Filling	300
EP-2	Stock Piles	285	EP-8	Hot Asphalt Loadout	300
EP-3	Cold Aggregate Transfer	285	EP-9	Customer Haul Road	300
EP-4	Drum Dryer	300	EP-10	#2 Fuel Oil Tank	N/A
EP-5	Asphalt Oil Heater	N/A	EP-11	#4 Fuel Oil Tank	N/A
EP-6	Mineral Filler Silo	0.75	EP-12	Asphalt Oil Tank	N/A

The drum dryer is equipped with a 100 MMBtu/hr burner, which will combust either natural gas or #4 fuel oil (waste oil). Worst case emissions for each type of fuel were included in the potential emissions calculations. Emissions from the dryer will be controlled by a high efficiency baghouse. The asphalt oil heater is rated at 2 MMBtu/hr and will combust natural gas, propane, or #2 fuel oil. Worst case emissions for each type of fuel were included in the potential emissions calculations.

Associated equipment includes eight 20-ton cold feed bins, ten 30" conveyors, a 7' x 14' shaker screen, a grizzly, a mineral filler silo, five hot asphalt bins, three hot asphalt silos, two fuel oil storage tanks, and an asphalt oil storage tank. The plant will use electric power.

Although other crushing equipment has previously been located at this site, all emission sources other than the equipment listed in this permit have been removed.

The inherent moisture content of the aggregate is at least 1.5% by weight, which will be verified by moisture content testing. The applicant is using at least one of the methods described in Attachment B, *Best Management Practices*, to control emissions from haul roads and vehicular activity areas.

The installation is located in Jefferson County, a nonattainment area for the 8-hour ozone standard and the PM<sub>2.5</sub> standard, and an attainment area for all other criteria pollutants. The installation is not located in the Jefferson County nonattainment area for lead.

The 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 installation's major source level is 250 tons per year.

Simpson Construction Materials is allowed to operate concurrently with any portable plants that may relocate to this site, as long as those plants do not have ambient impact limits based on the Air Pollution Control Program's nomographs. If a portable plant wishes to relocate to this site, please refer to the special conditions of that plant's permit, which may need to be amended in order to allow concurrent operation with this stationary plant.

#### EMISSIONS/CONTROLS EVALUATION

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 batch 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 highest respective SO<sub>2</sub> and SO<sub>3</sub> emission factors from AP-42 Section 1.3 *Fuel Oil Combustion* (September 1998) & Section 1.4 *Natural Gas Combustion* (July 1998), 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, PM<sub>10</sub>, and PM<sub>2.5</sub> emissions. Emissions from plant load-out were calculated using the 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 the highest respective emission factors from AP-42 Section 1.3, Section 1.4 & Section 1.5 *Liquefied Petroleum Gas Combustion* (July 2008). 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 at least 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 74% 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 *Aggregate Handling and Storage Piles* (November 2006). The moisture content of the aggregate is at least 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*.

Table 2 summarizes the emissions of the project. Because this is a new facility, it has no existing potential emissions or existing actual emissions. Potential emissions of the project represent the potential of the new equipment and all associated haul roads and storage piles, assuming continuous operation (8,760 hours per year). Installation conditioned potential emissions account for a voluntary installation-wide PM<sub>10</sub> de minimis limit.

Table 2: Emissions Summary (tons per year)

Air Pollutant	<sup>a</sup> De Minimis Level / SMAL	Existing Potential Emissions	Existing Actual Emissions	Potential Emissions of the Project	Installation Conditioned Potential Emissions
PM	25.0	N/A	N/A	217.71	37.14
PM <sub>10</sub>	15.0	N/A	N/A	87.92	<15.0
PM <sub>2.5</sub>	10.0	N/A	N/A	46.61	7.95
SO <sub>x</sub>	40.0	N/A	N/A	6.76	1.15
NO <sub>x</sub>	40.0	N/A	N/A	142.27	24.27
VOC	40.0	N/A	N/A	68.48	11.68
CO	100.0	N/A	N/A	18.64	3.18
Formaldehyde	10.0 / 2.0	N/A	N/A	4.19	0.71
2-methylnaphthalene <sup>b</sup>	10.0 / 0.01	N/A	N/A	0.22	0.038
Lead Compounds	10.0 / 0.01	N/A	N/A	0.020	0.0034
Total HAPs	25.0	N/A	N/A	10.48	1.79

N/A = Not Applicable

<sup>a</sup>Screening Model Action Level (SMAL)

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

Table 3 summarizes the ambient air quality impact analysis, which was performed in order to determine the impact of all pollutants with a potential to emit greater than their respective SMALs. The maximum modeled impact is the impact of each pollutant when the plant is operating continuously.

Table 3: Ambient Air Quality Impact Analysis

Pollutant	<sup>a</sup> RAL (µg/m <sup>3</sup> )	Averaging Time	<sup>b</sup> Maximum Modeled Impact (µg/m <sup>3</sup> )	<sup>c</sup> Limited Impact (µg/m <sup>3</sup> )
2-methylnaphthalene <sup>d</sup>	23	24-hour	1.66	N/A
2-methylnaphthalene	2.3	Annual	0.28	N/A

N/A = Not Applicable

<sup>a</sup>Risk Assessment Level (RAL)

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

<sup>c</sup>Limit based on compliance with the RAL

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



The following equipment was modeled using the AERSCREEN screen modeling software. The stack characteristics entered into the model are listed in Table 4.

Table 4: 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 (EP-4)	10.67	0.91	64.68	366.48	Rural

### 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 are above the de minimis level but below the major source level. Potential emissions of PM<sub>10</sub> are conditioned below the de minimis level, and all other pollutants are subsequently conditioned below their respective de minimis levels.

### APPLICABLE REQUIREMENTS

Simpson Construction Materials 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

- *Start-Up, Shutdown, and Malfunction Conditions*, 10 CSR 10-6.050
- *Operating Permits*, 10 CSR 10-6.065
  - Because NSPS Subpart I applies to the equipment, submittal of a Basic Operating Permit application is required within 30 days after the issuance of this construction permit; however, there is a proposed rule change taking place, which may remove the requirement for de minimis installations to obtain a Basic Operating Permit if the only criteria triggering the Basic Operating Permit is NSPS applicability. Contact the Air Pollution Control Program's Operating Permit Unit for an update prior to submitting your Basic Operating Permit application.
- *Submission of Emission Data, Emission Fees and Process Information*, 10 CSR 10-6.110.
- *Restriction of Emission of Odors*, 10 CSR 10-6.165

- *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

#### SPECIFIC REQUIREMENTS

- *New Source Performance Regulations*, 10 CSR 10-6.070
  - *Standards of Performance for Hot Mix Asphalt Facilities*, 40 CFR Part 60, Subpart I
- *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 November 28, 2016, received November 29, 2016, designating Simpson Construction Materials as the owner and operator of the installation.

**Attachment A: Annual PM<sub>10</sub> Emissions Tracking Sheet  
Simpson Construction Materials (099-0156)**

Project Number: 2016-11-056

Permit Number: 042017-009

This sheet covers the period from \_\_\_\_\_ to \_\_\_\_\_ (Copy as needed)  
(Month, Year) (Month, Year)

Month	Production (tons)	Emission Factor (lb/ton)	Monthly Emissions <sup>1</sup> (lbs)	Monthly Emissions <sup>2</sup> (tons)	12-Month Total Emissions <sup>3</sup> (tons)
Example	37,000	0.0669	2,475	1.238	14.85
		0.0669			
		0.0669			
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<sup>1</sup>Multiply the monthly production by the emission factor.

<sup>2</sup>Divide the monthly emissions (lbs) by 2,000.

<sup>3</sup>Add the monthly emissions (tons) to the sum of the monthly emissions from the previous eleven months. A total of less than **15.0** tons of PM<sub>10</sub> is necessary for compliance with Special Condition 1.

## Attachment B: Best Management Practices

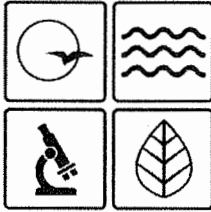
Haul roads and vehicular activity areas shall be maintained in accordance with at least one of the following options when the plant is operating.

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>EIQ</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		



Missouri Department of dnr.mo.gov

# NATURAL RESOURCES

Eric R. Greitens, Governor

Carol S. Comer, Director

APR 21 2017

Mr. Tom Simpson  
Sales Manager  
Simpson Construction Materials  
P.O. Box 250  
Valley Park, MO 63088

RE: New Source Review Permit - Project Number: 2016-11-056

Dear Mr. Simpson:

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).

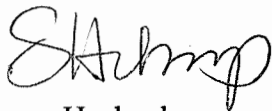


Mr. Tom Simpson  
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If you have any questions regarding this permit, please do not hesitate to contact Ryan Schott, at the department's Air Pollution Control Program, P.O. Box 176, Jefferson City, MO 65102 or at (573) 751-4817. Thank you for your attention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

Sincerely,

AIR POLLUTION CONTROL PROGRAM



Susan Heckenkamp  
New Source Review Unit Chief

SH:rsj

Enclosures

c: St. Louis Regional Office  
PAMS File: 2016-11-056

Permit Number: 042017-009