

# PERMIT BOOK

# 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: **102015-007**

Project Number: 2015-07-029  
Installation ID: 031-0125

Parent Company: Heartland Materials, LLC

Parent Company Address: 1965 Co Rd 601, Jackson, MO 63755

Installation Name: Heartland Materials, LLC

Installation Address: 1965 Co Rd 601, Jackson, MO 63755

Location Information: Cape Girardeau County, LG2192 T32N R13E

Application for Authority to Construct was made for:

Addition of 1 screen, 4 conveyors and a wash plant to existing quarry. 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.

**OCT 27 2015**

EFFECTIVE DATE

A handwritten signature in black ink, appearing to read "Lynn L. Moore".  
\_\_\_\_\_  
DIRECTOR OR DESIGNEE  
DEPARTMENT OF NATURAL RESOURCES

## STANDARD CONDITIONS:

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

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

You must notify the Department's Air Pollution Control Program of the anticipated date of start up of this (these) air contaminant source(s). The information must be made available within 30 days of actual startup. Also, you must notify the Department of Natural Resources' regional office responsible for the area within which you are located within 15 days after the actual start up of this (these) air contaminant source(s).

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

You may appeal this permit or any of the listed special conditions to the Administrative Hearing Commission (AHC), P.O. Box 1557, Jefferson City, MO 65102, as provided in RSMo 643.075.6 and 621.250.3. If you choose to appeal, you must file a petition with the AHC within 30 days after the date this decision was mailed or the date it was delivered, whichever date was earlier. If any such petition is sent by registered mail or certified mail, it will be deemed filed on the date it is mailed. If it is sent by any method other than registered mail or certified mail, it will be deemed filed on the date it is received by the AHC.

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

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

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Project No.	2015-07-029

**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) 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. Generic Plant Designation and Maximum Combined Hourly Design Rate  
Heartland Materials, LLC has been designated to be a Generic Plant Operation. The combined MHDR each of the following generic equipment types shall not exceed the rates and numbers listed in Table 1.

Table 1: Generic Equipment

Equipment Type	MHDR	Maximum Number of Units
Conveyor(s)	500 tons per hour	4
Screen	500 tons per hour	1

2. Generic Plant Equipment Identification Requirement
  - A. Heartland Materials, LLC shall submit the following information to the Air Pollution Control Program's Permitting Section and the Southeast Regional Office within 15 days of actual startup.
    - 1) A master list of all equipment that will be permitted for use with the generic plant. This master list shall include at minimum the following information for each piece of equipment:
      - a) Manufacturer's name
      - b) Model number
      - c) Serial number
      - d) Actual MHDR
      - e) Date of manufacture
      - f) Any other additional information that is necessary to uniquely identify the equipment.
    - 2) A list of the core equipment that will always be utilized with the generic plant. The core equipment associated with the generic plant shall include at least one primary unit that controls the rate of the process flow (e.g., a primary crusher or primary screen).
    - 3) A determination of the applicability of 40 CFR Part 60, Subpart OOO, "Standards of Performance for Nonmetallic Mineral Processing Plants" for each piece of equipment indicating whether each piece of equipment is subject to Subpart OOO and justification for this determination.
    - 4) Heartland Materials, LLC shall notify the Air Pollution Control Program's Permitting Section and the Southeast Regional Office when new equipment is added to the master list and when core equipment is changed within 30 days of the change.

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**GENERAL SPECIAL CONDITIONS:**

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

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- B. Heartland Materials, LLC shall maintain a list of the specific equipment currently being utilized with the generic plant. Any arrangement of the generic plant's equipment must be such that the core equipment is not bypassed in the process flow.
  
3. **Equipment Identification Requirement**  
Heartland Materials, LLC shall maintain easily read permanent markings on each component of the plant. These markings shall be the equipment's serial number or a company assigned identification number that uniquely identifies the individual component.
  
4. **Record Keeping Requirement**  
Heartland Materials, LLC shall maintain all records required by this permit for not less than five years and shall make them available to any Missouri Department of Natural Resources' personnel upon request.
  
5. **Reporting Requirement**  
Heartland Materials, LLC 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.

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Project No.	2015-07-029

**SITE SPECIFIC SPECIAL CONDITIONS:**

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

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

1. **Superseding Condition**  
Site Specific Special Condition 3 of this permit supersedes Site Specific Special Condition 1 found in construction permit 012011-008A issued by the Air Pollution Control Program.
2. **Best Management Practices Requirement**  
Heartland Materials, LLC shall control fugitive emissions from all of the haul roads and vehicular activity areas at this site by performing BMPs as defined in Attachment AA.
3. **Ambient Air Impact Limitation**
  - A. Heartland Materials, LLC shall not cause an exceedance of the NAAQS for PM<sub>10</sub> of 150.0 µg/m<sup>3</sup> 24-hour average in ambient air.
  - B. Heartland Materials, LLC shall demonstrate compliance with Special Condition 3.A using Attachment A and Attachment B or other equivalent forms that have been approved by the Air Pollution Control Program, including electronic forms. Heartland Materials, LLC shall account for the impacts from other sources of PM<sub>10</sub> as instructed in the attachments.
4. **Annual Emission Limit**
  - A. Heartland Materials, LLC shall emit less than 15.0 tons of PM<sub>10</sub> in any 12-month period from the emissions points in this project as stated in Table 2.
  - B. Heartland Materials, LLC shall demonstrate compliance with Special Condition 4.A using Attachment C or another equivalent form that has been approved by the Air Pollution Control Program, including an electronic form.
5. **Minimum Distance to Property Boundary Requirement**  
The screen shall be located at least 600 feet from the nearest property boundary.
6. **Record Keeping Requirement**  
Heartland Materials, LLC 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.

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**SITE SPECIFIC SPECIAL CONDITIONS:**

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

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7. Reporting Requirement

Heartland Materials, LLC 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: 2015-07-029  
Installation ID Number: 031-0125  
Permit Number:

Heartland Materials, LLC  
1965 Co Rd 601  
Jackson, MO 63755

Complete: August 19, 2015

Parent Company:  
Heartland Materials, LLC  
1965 Co Rd 601  
Jackson, MO 63755

Cape Girardeau County, LG2192 T32N R13E

PROJECT DESCRIPTION

Heartland Materials, LLC (Heartland) has applied for an Application for Authority to Construct for the installation of a wash plant, one screen and four conveyors. A total of four conveyors will be installed with the screen and wash station but for calculation purpose, no more than 500 tons per hour total will be processed through those conveyors. One additional storage pile is included in this project. Heartland operates an existing stationary generic rock-crushing plant where crushed rock is made commercially available. The new screen will operate in conjunction with the existing rock crushing/screen plant. It will process the aggregate and convey it to a wash plant, and storage piles where it will eventually be sold to the public. The stacker used to transfer the aggregate material to the storage pile is being relocated from a different section of the plant. The installation is powered with electricity from the local utility. The emissions points for this project are listed in Table 2

Table 2: Emission Points for Project #2015-07-029

Unit ID	Equipment	Make/Model	Capacity (tons/hour)
EP-17	Screen	Three deck JCI Screen	500
EP-18	4 Conveyors	JCI	500
EP-19	Storage Pile	N/A	500

Heartland Materials, LLC (Heartland) also has a rip rap plant at this location. The rock for the rip rap plant comes from the quarry wall and does not come from previously crushed rock. As a result, all rock for the rip rap plant is screened by a screen (EP-13) and both plants operate independently of each other. After the aggregate is screened by the rip rap plant, it is stored with the crushed rock based upon its screening size. The rip rap is be sold with the other aggregate made commercially available. Both plants are considered to be a part of the same installation.

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 Cape Girardeau County, an attainment area for all criteria pollutants. This installation is not on the List of Named Installations found in 10 CSR 10-6.020(3)(B), Table 2. The installation's major source level is 250 tons per year and fugitive emissions are not counted toward major source applicability.

This installation is located in Cape Girardeau County, an attainment area for all criteria pollutants.

This installation is not on the List of Named Installations found in 10 CSR 10-6.020(3)(B), Table 2. The installation's major source level is 250 tons per year and fugitive emissions are not counted toward major source applicability.

## TABLES

The following permits have been issued to Heartland Materials, LLC from the Air Pollution Control Program.

Table 3: Permit History

Permit Number	Description
012011-008	Installation of a generic rock-crushing plant
012011-008A	Permit amendment to add a temporary primary crusher
122014-007	Rip-Rap Plant

The table below summarizes the emissions of this project. The existing actual emissions were taken from the 2014 EIQ. The potential emissions of the application represent the emissions of all equipment and activities of this project assuming continuous operation (8760 hours per year). The conditioned potential emissions of the application are based on a voluntary 15.0 ton per year PM<sub>10</sub> limit to avoid modeling requirements.

Table 4: Emissions Summary (tons per year)

Air Pollutant	De Minimis Level/SMAL	Existing Installation's Potential Emissions	Existing Actual Emissions (2014 EIQ)	<sup>b</sup> Potential Emissions of the Application	Conditioned Potential Emissions of Application
PM	25.0	44.15	N/D	111.44	37.48
PM <sub>10</sub>	15.0	< 30.00	8.51	44.60	< 15.00
PM <sub>2.5</sub>	10.0	4.90	2.36	5.99	2.01
SO <sub>x</sub>	40.0	1.80	0.00	N/A	N/A
NO <sub>x</sub>	40.0	0.66	0.00	N/A	N/A
VOC	40.0	0.21	0.00	N/A	N/A
CO	100.0	0.57	0.00	N/A	N/A
Total HAPs	25.0	0.002	0.00	N/A	N/A

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

Table 5: Ambient Air Quality Impact Analysis

Pollutant	NAAQS ( $\mu\text{g}/\text{m}^3$ )	Averaging Time	<sup>a</sup> Maximum Modeled Impact of Rock-Crushing Plant ( $\mu\text{g}/\text{m}^3$ )	<sup>b</sup> Maximum Modeled Impact of Rip Rap Plant ( $\mu\text{g}/\text{m}^3$ )	Limited Impact of All Plants Owned by Heartland ( $\mu\text{g}/\text{m}^3$ )	Back-ground ( $\mu\text{g}/\text{m}^3$ )	<sup>c</sup> Daily Limit of Rock-Crushing Plant (tons/day)
<sup>d</sup> PM <sub>10</sub> (Solitary)	150.0	24-hour	580.54	222.62	130.0	20.0	10,101
<sup>e</sup> PM <sub>10</sub> (Same)	150.0	24-hour	N/A	N/A	130.0	20.0	N/A
<sup>f</sup> PM <sub>10</sub> (Separate)	150.0	24-hour	N/A	N/A	81.60	68.40	N/A

N/A = Not Applicable

<sup>a</sup> Modeled impact of rock-crushing plant at maximum capacity with controls

<sup>b</sup> Modeled impact of rip rap plant at maximum capacity with controls, per Construction Permit 122014-007

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

<sup>d</sup> Operation of only one plant owned by Heartland at a time, either the rip rap plant or the rock-crushing plant

<sup>e</sup> Operation of more than one plant that is owned by Heartland

<sup>f</sup> Operation of plants that are owned by Heartland with plants that are not owned by Heartland

## EMISSIONS CALCULATIONS

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

Emissions from the rock-crushing equipment were calculated using emission factors from AP-42 Section 11.19.2 "Crushed Stone Processing and Pulverized Mineral Processing," August 2004. The uncontrolled emission factors were used because the inherent moisture content of the crushed rock is less than 1.5 % by weight.

Emissions from the vehicular activity areas were calculated using the predictive equation from AP-42 Section 13.2.2 "Unpaved Roads," November 2006. A 90% control efficiency for PM and PM<sub>10</sub> and a 40% control efficiency for PM<sub>2.5</sub> were applied to the emission calculations for the use of BMPs. Emissions from load-in and load-out of storage piles were calculated using the predictive equation from AP-42 Section 13.2.4. Since the rock is processed in a wash plant prior to the stock pile it is expected that the moisture content of the rock in the storage pile will be well above 1.5% by weight therefore the controlled emission factor was used for the storage pile. 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 5. The Air Pollution Control Program requires an AAQIA of PM<sub>10</sub> for all asphalt, concrete and rock-crushing plants regardless of the level of PM<sub>10</sub> emissions if a permit is required. An AAQIA is required for other pollutants if their emissions exceed their respective de minimis or screening model action level (SMAL). The AAQIA was performed using the Air Pollution Control Program's generic nomographs and when appropriate the EPA modeling software AERSCREEN. For each pollutant that was modeled, the maximum concentration that occurs at or beyond the site boundary was compared to the NAAQS or RAL for the pollutant. If during continuous operation the modeled concentration of a pollutant is greater than the applicable NAAQS or RAL, the plant's production is limited to ensure compliance with the standard.

The equipment of the rock crushing plant in permit #012011-008A and the new equipment part of this project were included in the ambient air quality impact analysis.

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

## OPERATING SCENARIOS

The plant is permitted to operate with other plants located at the site as long as the NAAQS is not exceeded. The following scenarios explain how Heartland Materials, LLC shall demonstrate compliance with the NAAQS.

- When only one plant owned by Heartland, either the rip rap plant or the rock-crushing plant, is located at this site, which is referred to as solitary operation, Heartland must calculate the daily impact of the plant and limit its impact below the NAAQS using Attachment A or another equivalent form.
- When more than one plant that is owned by Heartland is located at the site, which is referred to as same owner plants, Heartland must calculate the daily impact of each plant and limit the total impact of all plants to not exceed the NAAQS using Attachment A or another equivalent form.
- When plants that are not owned by Heartland, which are referred to as separate owner plants, are located at the site, Heartland must account for the impacts of these plants as a background concentration and add it to the total impact of all plants owned by Heartland that are operating at the site. This total is limited to not exceed the NAAQS. Heartland will limit the total impact of all plants they own and

operate at the site to  $81.6 \mu\text{g}/\text{m}^3$  when any plants they do not own are located at the site. Heartland is not permitted to operate with any plant that is not owned by Heartland that has a separate owner background greater than  $68.40 \mu\text{g}/\text{m}^3$ . Emissions from haul roads and vehicular activity areas are addressed as a background concentration of  $20.0 \mu\text{g}/\text{m}^3$ . During this scenario, Heartland shall use Attachment B, or another equivalent form, to demonstrate compliance with the NAAQS.

## 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 particulate matter are above the de minimis levels, but below major source levels.

## APPLICABLE REQUIREMENTS

Heartland Materials, LLC 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. For a complete list of applicable requirements for your installation, please consult your operating permit.

## GENERAL REQUIREMENTS

- *Submission of Emission Data, Emission Fees and Process Information*, 10 CSR 10-6.110.
- A Basic Operating Permit application is required for this installation within 30 days of commencement of operations to amend your existing operating permit to add this permit
- *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

- None of the New Source Performance Standards (NSPS) apply to the installation.
- 40 CFR 60 Subpart OOO, "Standards of Performance for Nonmetallic Mineral Processing Plants" applies to the rock crushing plant.

## 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.

\_\_\_\_\_  
Chad Stephenson  
New Source Review Unit

\_\_\_\_\_  
Date

## PERMIT DOCUMENTS

The following documents are incorporated by reference into this permit:

- The Application for Authority to Construct form, dated July 7, 2015, received July 17, 2015, designating Heartland Materials, LLC as the owner and operator of the installation.







## Attachment AA: Best Management Practices

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

1. Pavement
  - A. The operator shall pave the area with materials such as asphalt, concrete or other materials approved by the Air Pollution Control Program. The pavement will be applied in accordance with industry standards to achieve control of fugitive emissions while the plant is operating.
  - B. Maintenance and repair of the road surface will be conducted as necessary to ensure that the physical integrity of the pavement is adequate to achieve control of fugitive emissions from these areas while the plant is operating.
  - C. The operator shall periodically wash or otherwise clean all of the paved portions of the haul roads as necessary to achieve control of fugitive emissions from these areas while the plant is operating.
  
2. Application of Chemical Dust Suppressants
  - A. The operator shall apply a chemical dust suppressant (such as magnesium chloride, calcium chloride, lignosulfonates, etc.) to unpaved areas.
  - B. The quantities of the chemical dust suppressant shall be applied and maintained in accordance with the manufacturer's recommendation (if available) and in sufficient quantities to achieve control of fugitive emissions from these areas while the plant is operating.
  - C. The operator shall record the time, date and the amount of material applied for each application of the chemical dust suppressant agent on the above areas. The operator shall keep these records with the plant for not less than five (5) years and make these records available to Department of Natural Resources' personnel upon request.
  
3. Application of Water-Documented Daily
  - A. The operator shall apply water to unpaved areas. Water shall be applied at a rate of 100 gallons per day per 1,000 square feet of unpaved or untreated surface area while the plant is operating.
  - B. Precipitation may be substituted for watering if the precipitation is greater than one quarter of one inch and is sufficient to control fugitive emissions.
  - C. Watering may also be suspended when the ground is frozen, during periods of freezing conditions when watering would be inadvisable for traffic safety reasons, or when there will be no traffic on the roads.
  - D. The operator shall record the date, volume of water application and total surface area of active haul roads or the amount of precipitation that day. The operators shall also record the rationale for not watering (e.g. freezing conditions or not operating).
  - E. The operator shall keep these records with the plant for not less than five (5) years, and the operator shall make these records available to Department of Natural Resources' personnel upon request.

## APPENDIX A

### Abbreviations and Acronyms

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

Mr. Rex Meyr  
Plant Manager  
Heartland Materials, LLC  
1965 Co Rd 601  
Jackson, MO 63755

RE: New Source Review Permit - Project Number: 2015-07-029

Dear Mr. Meyr:

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 amended operating permit is necessary for continued compliance. The reverse side of your permit certificate has important information concerning standard permit conditions and your rights and obligations under the laws and regulations of the State of Missouri.

If you 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 P.O. Box 1557, Jefferson City, MO 65102, website: [www.aa.mo.gov/ahc](http://www.aa.mo.gov/ahc). If you have any questions regarding this permit, contact Chad Stephenson, at the 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:csl

Enclosures

c: Southeast Regional Office  
PAMS File: 2015-07-029  
Permit Number: