

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: **052012-017**

Project Number: 2012-02-060
Installation Number: 093-0007

Parent Company: Specialty Granules, Inc.

Parent Company Address: 13424 Pennsylvania Avenue, Hagerstown, MD 21742

Installation Name: Specialty Granules, Inc.

Installation Address: 1 Hillcrest Drive, Annapolis, MO 63620

Location Information: Iron County, S22, T31N, R3E

Application for Authority to Construct was made for:

The installation of eight new screens, eight new conveyors, two new bucket elevators and two new hoppers and the replacement of two existing conveyors. 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.

MAY 25 2012

EFFECTIVE DATE

Kyra 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 startup of these air contaminant sources. 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 startup of these air contaminant sources.

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

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

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

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

Page No.	3
Permit No.	
Project No.	2012-02-060

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."

Specialty Granules, Inc.
Iron County, S22, T31N, R3E

1. Superseding Condition
The conditions of this permit supersede all special conditions found in the previously issued construction permit 012011-014 issued by the Air Pollution Control Program.
2. Capture Device Requirements
 - A. Specialty Granules, Inc. shall use hoods to capture emissions from the emission units as indicated in Table 2. A hood is a shaped inlet to a pollution control system that does not totally surround emissions from an emissions unit.
 - 1) Specialty Granules, Inc. shall design and construct each hood according to the most current version of the industrial ventilation manual entitled, "Industrial Ventilation – A Manual of Recommended Practice, American Conference of Governmental Industrial Hygienists."
 - 2) Specialty Granules, Inc. shall demonstrate that each hood was constructed according to Special Condition 2.A.1) by keeping a record of the following design parameters for each hood.
 - a) The cross-sectional area of the hood inlet.
 - b) The distance from the hood inlet to the emission source.
 - c) The minimum recommended volumetric airflow.
 - d) The minimum recommended hood face velocity.
 - 3) At least once per calendar year (no less than nine calendar month and no more than 15 calendar months following the previous measurement), Specialty Granules, Inc. shall verify the proper operation of each hood by;
 - a) Recording the actual face velocity or the actual volumetric airflow of each capture hood.
 - b) Performing a visual smoke puff test at each emission source.
 - 4) Specialty Granules shall minimize cross drafts by locating the emissions source and the hood inside a building with four (4) sides and a roof.

Page No.	4
Permit No.	
Project No.	2012-02-060

SPECIAL CONDITIONS:

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

- B. Specialty Granules, Inc. shall use total enclosures to capture emissions from the emission units as indicated in Table 2. A total enclosure is an enclosure that, with the exception of openings for material entry and exit, completely surrounds the emissions from an emissions unit. Specialty Granules shall design and construct each total enclosure according to the most current version of the industrial ventilation manual entitled, "Industrial Ventilation – a Manual of Recommended Practice, American Conference of Governmental Industrial Hygienists."
3. Control Device Requirement - Baghouse
 - A. Specialty Granules, Inc. shall control emissions from the emission units listed in Table 2 using baghouses as specified in the permit application.
 - B. The baghouses shall be operated and maintained in accordance with the manufacturer's specifications. The baghouse shall be equipped with a gauge or meter, which indicates the pressure drop across the control device. These gauges or meters shall be located such that the Department of Natural Resources' employees may easily observe them.
 - C. Replacement filters for the baghouses shall be kept on hand at all times. The bags shall be made of fibers appropriate for operating conditions expected to occur (i.e. temperature limits, acidic and alkali resistance, and abrasion resistance).
 - D. Specialty Granules, Inc. shall monitor and record the operating pressure drop across the baghouses at least once every 24 hours. The operating pressure drop shall be maintained within the design conditions specified by the manufacturer's performance warranty.
 - E. Specialty Granules, Inc. shall maintain an operating and maintenance log for the baghouses which shall include the following:
 - 1) Incidents of malfunction, with impact on emissions, duration of event, probable cause, and corrective actions; and
 - 2) Maintenance activities, with inspection schedule, repair actions, and replacements, etc.
 4. Record Keeping Requirements
Specialty Granules, Inc. shall maintain all records required by this permit for not less than five years and shall make them available immediately to any Missouri Department of Natural Resources' personnel upon request.

REVIEW OF APPLICATION FOR AUTHORITY TO CONSTRUCT AND OPERATE
SECTION (6) REVIEW

Project Number: 2012-02-060
Installation ID Number: 093-0007
Permit Number:

Specialty Granules, Inc.
1 Hillcrest Drive
Annapolis, MO 63620

Complete: February 21, 2012

Parent Company:
Specialty Granules, Inc.
13424 Pennsylvania Avenue
Hagerstown, MD 21742

Iron County, S22, T31N, R3E

REVIEW SUMMARY

- Specialty Granules, Inc. has applied for authority to install eight new screens, eight new conveyors, two new bucket elevators, and two new hoppers and to replace two existing conveyors.
- Hazardous Air Pollutant (HAP) emissions are not expected from the proposed equipment.
- 40 CFR 60 Subpart OOO, "Standards of Performance for Nonmetallic Mineral Processing Plants" of the New Source Performance Standards (NSPS) applies to the equipment.
- None of the National Emission Standards for Hazardous Air Pollutants (NESHAPs) apply to this installation. None of the currently promulgated Maximum Achievable Control Technology (MACT) regulations apply to the proposed equipment.
- Baghouses are being used to control the particulate emissions from the equipment in this permit.
- 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 (PM) are greater than the *de minimis* level.
- This installation is located in Iron 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.

- Ambient air quality modeling was not performed because potential emissions of all pollutants (except PM) are less than their *de minimis* level. The potential emissions of PM are greater than the *de minimis* level, but PM does not have modeling requirements.
- Emissions testing are required by the NSPS, 40 CFR 60 Subpart, OOO.
- An application for an amendment to the Basic Operating Permit is required for this installation within 30 days of equipment startup.
- Approval of this permit is recommended with special conditions.

INSTALLATION DESCRIPTION

Specialty Granules, Inc., formerly ISP Minerals, is an existing manufacturer of roofing shingle granules and is located in Iron County. Specialty Granules, Inc. quarries rhyolite onsite and processes the aggregates through crushing and screening operations to form raw roofing granules. The granules are then processed in a coloring plant. The installation was originally classified as a major source for particulate matter less than ten microns in diameter (PM₁₀) for construction permits. However, the facility has since installed fabric filters that reduced the PM₁₀ emissions to minor source levels. The facility has been issued a Basic State Operating Permit.

The following New Source Review permits have been issued to Specialty Granules, Inc. from the Air Pollution Control Program.

Table 1: Permit History

Permit Number	Description
0680-006	Rotary rock dryer for the secondary crusher, 20 MMBtu/hr burner, two conveyors
0680-007	Four underground storage tanks
0680-008	Rock storage and conveyors
0680-009	Rock storage and conveyors
0680-010	Conveyor
0680-011	Hopper and conveyor
0680-012	Two 500 ton storage bins and conveyors
0680-013	One 1000 tons storage bin and conveyor
1187-005	Incinerator
1290-002	Modification to process
0792-034	Tertiary crusher, screens, elevators, conveyors and storage bins
0393-006	Conveyor and screens
0394-015	Conveyor and slurry tank
0395-016	Outside storage stockpile
0395-017	Two screens
0298-002A	Four conveyors, two elevators and two screens for the recovery system
122009-007	Replacement of preheater kilns in the coloring plant
122009-007A	Correction to the potential emissions calculations
012011-014	Four screens and four conveyors for the mill building
082011-004	A rock dryer, crusher, screen and associated material handling equipment
012012-012	New truck loadout facility at the existing roofing shingle granule manufacturing plant.

PROJECT DESCRIPTION

The throughputs, emission factors, and maximum design rates have not been included in this permit because Specialty Granules, Inc. has requested that the information be considered confidential due to the proprietary nature of the information. This information is contained in the confidential project folder (No. 2012-02-070) and is available to employees of the Missouri Department of Natural Resources and the U.S. Environmental Protection Agency (EPA) for review.

Specialty Granules, Inc. proposes to install eight new screens, eight new conveyors, two new bucket elevators, and two new hoppers. In addition, two conveyors will be replaced. Emissions from some of the added equipment will be vented to existing baghouses (CD32, CD33, CD34, and CD35) while some will be vented to a new baghouse (CD40).

The mill building receives crushed aggregates from the secondary crusher building and produces raw roofing granules of a specific size. The processes within the mill building include several screening and crushing operations in series. Since the raw roofing granules must be a certain size, the oversized aggregates are continually re-circulated through the crushing and screening operations within the mill building until the aggregates are of acceptable sizes. Specialty Granules, Inc. expects the new equipment will increase the efficiency of the mill operations by reducing the amount of oversized aggregates being recirculated back to the crushing operations. The maximum design rate of the aggregate entering the mill and the yield will increase. Due to the many product streams in the mill, it is unclear which existing equipment will be debottlenecked. Therefore, to be conservative, it was assumed that all of the existing equipment will be debottlenecked by this project. All of the new and modified emission units, capture devices and control devices are listed below in Table 2.

Table 2: New and Modified Equipment List

New or Modified	Unit Description	Capture Device	Control Device	Control Device ID	Emission Point
Modified	1A S/Screen	Total Enclosure	Baghouse	DC-S-9	S-9
Modified	2A S/Screen	Total Enclosure	Baghouse	DC-S-9	S-9
Modified	3A S/Screen	Total Enclosure	Baghouse	DC-S-9	S-9
Modified	1 A Elevator	Total Enclosure	Baghouse	DC-S-9	S-9
Modified	190 Conveyor	Hood	Baghouse	DC-S-9	S-9
Modified	191 Conveyor	Hood	Baghouse	DC-S-9	S-9
Modified	198A Conveyor	Hood	Baghouse	DC-S-9	S-9
Modified	199 Conveyor	Hood	Baghouse	DC-S-9	S-9
Modified	231 Conveyor	Hood	Baghouse	DC-S-9	S-9
Modified	1B S/Screen	Total Enclosure	Baghouse	DC-S-10	S-10
Modified	2B S/Screen	Total Enclosure	Baghouse	DC-S-10	S-10
Modified	3B S/Screen	Total Enclosure	Baghouse	DC-S-10	S-10
Modified	1B Elevator	Total Enclosure	Baghouse	DC-S-10	S-10
Modified	190 Conveyor	Hood	Baghouse	DC-S-10	S-10
Modified	191 Conveyor	Hood	Baghouse	DC-S-10	S-10
Modified	198B Conveyor	Hood	Baghouse	DC-S-10	S-10
Modified	199 Conveyor	Hood	Baghouse	DC-S-10	S-10
Modified	231 Conveyor	Hood	Baghouse	DC-S-10	S-10
Modified	460 Conveyor	Hood	Baghouse	DC-S-10	S-10
Modified	464 Conveyor	Hood	Baghouse	DC-S-10	S-10

Modified	Slurry Tank A	Total Enclosure	Baghouse	DC-S-10	S-10
Modified	Slurry Tank B	Total Enclosure	Baghouse	DC-S-10	S-10
Modified	3B VSI Crusher	Total Enclosure	Baghouse	DC-S-24	S-24
Modified	B Surge Bin	Total Enclosure	Baghouse	DC-S-24	S-24
Modified	3B Feeder	Total Enclosure	Baghouse	DC-S-24	S-24
Modified	190 Conveyor	Hood	Baghouse	DC-S-24	S-24
Modified	3B Elevator	Total Enclosure	Baghouse	DC-S-24	S-24
Modified	4B Elevator	Total Enclosure	Baghouse	DC-S-24	S-24
Modified	1B J & H Screen	Total Enclosure	Baghouse	DC-S-24	S-24
Modified	2B J & H Screen	Total Enclosure	Baghouse	DC-S-24	S-24
Modified	4B Mill Screen	Total Enclosure	Baghouse	DC-S-24	S-24
Modified	1B VSI Crusher	Total Enclosure	Baghouse	DC-S-25	S-25
Modified	2B VSI Crusher	Total Enclosure	Baghouse	DC-S-25	S-25
Modified	Surge Bin - B VSI	Total Enclosure	Baghouse	DC-S-27	S-27
Modified	1B Feeder	Total Enclosure	Baghouse	DC-S-25	S-25
Modified	2B Feeder	Total Enclosure	Baghouse	DC-S-25	S-25
Modified	196B Conveyor	Hood	Baghouse	DC-S-25	S-25
Modified	198B Conveyor	Hood	Baghouse	DC-S-25	S-25
Modified	2B Elevator	Total Enclosure	Baghouse	DC-S-25	S-25
Modified	3B Elevator	Total Enclosure	Baghouse	DC-S-25	S-25
Modified	221 Elevator	Total Enclosure	Baghouse	DC-S-25	S-25
Modified	463 Conveyor	Hood	Baghouse	DC-S-25	S-25
Modified	1B Mill Screen	Total Enclosure	Baghouse	DC-S-25	S-25
Modified	2B Mill Screen	Total Enclosure	Baghouse	DC-S-25	S-25
Modified	3B Mill Screen	Total Enclosure	Baghouse	DC-S-25	S-25
Modified	136 Rotex Screen	Total Enclosure	Baghouse	DC-S-25	S-25
Modified	137 Rotex Screen	Total Enclosure	Baghouse	DC-S-25	S-25
Modified	3A VSI Crusher	Total Enclosure	Baghouse	DC-S-26	S-26
Modified	A Surge Bin	Total Enclosure	Baghouse	DC-S-26	S-26
Modified	3A Feeder	Total Enclosure	Baghouse	DC-S-26	S-26
Modified	181 Conveyor	Hood	Baghouse	DC-S-26	S-26
Modified	3A Elevator	Total Enclosure	Baghouse	DC-S-26	S-26
Modified	4A Elevator	Total Enclosure	Baghouse	DC-S-26	S-26
Modified	1A J & H Screen	Total Enclosure	Baghouse	DC-S-26	S-26
Modified	2A J & H Screen	Total Enclosure	Baghouse	DC-S-26	S-26
Modified	4A Mill Screen	Total Enclosure	Baghouse	DC-S-26	S-26
Modified	1A VSI Crusher	Total Enclosure	Baghouse	DC-S-27	S-27
Modified	2A VSI Crusher	Total Enclosure	Baghouse	DC-S-27	S-27
Modified	Surge Bin - A VSI	Total Enclosure	Baghouse	DC-S-27	S-27
Modified	1A Feeder	Total Enclosure	Baghouse	DC-S-27	S-27
Modified	2A Feeder	Total Enclosure	Baghouse	DC-S-27	S-27
Modified	196A Conveyor	Hood	Baghouse	DC-S-27	S-27
Modified	198BA Conveyor	Hood	Baghouse	DC-S-27	S-27
Modified	2A Elevator	Total Enclosure	Baghouse	DC-S-27	S-27
Modified	3A Elevator	Total Enclosure	Baghouse	DC-S-27	S-27
Modified	1A Mill Screen	Total Enclosure	Baghouse	DC-S-27	S-27
Modified	2A Mill Screen	Total Enclosure	Baghouse	DC-S-27	S-27
Modified	3A Mill Screen	Total Enclosure	Baghouse	DC-S-27	S-27
Modified	4A S/Screen	Total Enclosure	Baghouse	DC-S-9	S-9
Modified	5A S/Screen	Total Enclosure	Baghouse	DC-S-9	S-9
Modified	4/5 A SS Feed Conveyor	Hood	Baghouse	DC-S-9	S-9
Modified	4/5 A SS Disc Conveyor	Hood	Baghouse	DC-S-9	S-9
Modified	5B S/Screen	Total Enclosure	Baghouse	DC-S-9	S-9
Modified	4B S/Screen	Total Enclosure	Baghouse	DC-S-9	S-9

Modified	4/5B SS Feed Conveyor	Hood	Baghouse	DC-S-9	S-9
Modified	4/5B SS Disc Conveyor	Hood	Baghouse	DC-S-9	S-9
Modified	189A Conveyor	Hood	Baghouse	CD40	S-30
Modified	189B Conveyor	Hood	Baghouse	CD40	S-30
New	202A Conveyor	Hood	Baghouse	CD40	S-30
New	202B Conveyor	Hood	Baghouse	CD40	S-30
New	203A Conveyor	Hood	Baghouse	CD40	S-30
New	203B Conveyor	Hood	Baghouse	CD40	S-30
New	BE5A Elevator	Total Enclosure	Baghouse	CD40	S-30
New	BE5B Elevator	Total Enclosure	Baghouse	CD40	S-30
New	Bin 1A Hopper	Total Enclosure	Baghouse	CD40	S-30
New	Bin 1B Hopper	Total Enclosure	Baghouse	CD40	S-30
New	SCR-5A Screen	Total Enclosure	Baghouse	CD35	S-27
New	SCR-5B Screen	Total Enclosure	Baghouse	CD33	S-25
New	SCR-6A Screen	Total Enclosure	Baghouse	CD35	S-27
New	SCR-6B Screen	Total Enclosure	Baghouse	CD33	S-25
New	SCR-7A Screen	Total Enclosure	Baghouse	CD34	S-26
New	SCR-7B Screen	Total Enclosure	Baghouse	CD32	S-24
New	SCR-8A Screen	Total Enclosure	Baghouse	CD34	S-26
New	SCR-8B Screen	Total Enclosure	Baghouse	CD32	S-24
New	204A Conveyor	Hood	Baghouse	CD34	S-26
New	204B Conveyor	Hood	Baghouse	CD32	S-24
New	205A Conveyor	Hood	Baghouse	CD35	S-27
New	205B Conveyor	Hood	Baghouse	CD33	S-25

EMISSIONS/CONTROLS EVALUATION

The pollutants of concern from this project are particulate matter less than two-and-a-half microns in diameter (PM_{2.5}), PM₁₀ and PM. Potential emissions of the application represent the potential of the new equipment and emissions increase from the debottlenecked equipment, assuming continuous operation (8760 hours per year). The emissions increase from debottlenecked equipment was determined by calculating the difference between the potential emissions and the baseline actual emissions (BAE). The BAE can be determined by using the average yearly (12-month) emissions from any consecutive 24-month period in the past 10 years. Specialty Granules, Inc. has requested to use the consecutive calendar years of 2010 and 2011.

The emission factors used in this analysis were obtained from the Environmental Protection Agency (EPA) document AP-42, *Compilation of Air Pollutant Emission Factors*, Fifth Edition. PM and PM₁₀ emissions are calculated using emission factors in AP-42, Chapter 19.11, *Crushed Stone Processing and Pulverized Mineral Processing* (August, 2004). Particulate matter less than two-and-a-half microns in diameter (PM_{2.5}) emissions were calculated assuming that 15% of the PM emissions are PM_{2.5} in accordance with the generalized particle size distribution data in AP-42, Appendix B.2., *Generalized Particle Size Distributions*, September, 1996.

Emissions from the equipment that are vented to baghouse dust collectors are captured by either total enclosures or hoods. The total enclosure completely surrounds the emissions from an emission unit and is assumed to capture 100% of the emissions. Hoods are shaped inlets to a pollution control system that do not completely surround the emissions but are designed to capture and discharge the emission to control equipment. The emission units with hoods are located inside a building and are assumed to capture at least 80% of the emissions. 99.5% baghouse control efficiency was given for PM₁₀ and PM and 99.0% was given for PM_{2.5}.

Potential emissions of the application represent the potential of the new equipment, assuming continuous operation (8760 hours per year.) The following table provides an emissions summary for this project. The total installation-wide PM_{2.5} and PM emissions have never been calculated for this facility. However, based on the fact that the non-fugitive PM₁₀ emissions are four times less (at 57.34 tpy) than the major source level of 250 tpy and that most of the emissions at the installation are point sources controlled by baghouses, the total installation-wide PM_{2.5} and PM emissions are expected to be below major source levels.

Table 3: Emissions Summary (tons per year)

Pollutant	Regulatory <i>De Minimis</i> Levels	¹ Existing Potential Emissions	Existing Actual Emissions (2010 EIQ)	Potential Emissions of the Application	³ New Installation Conditioned Potential
Total PM _{2.5}	10.0	<major	² 0.0673	6.45	N/A
⁴ Non-Fugitive PM _{2.5}	N/A	<major		6.45	N/A
Total PM ₁₀	15.0	133.94	² 60.39	7.18	N/A
⁴ Non-fugitive PM ₁₀	N/A	57.34		7.18	N/A
Total PM	25.0	<major	N/D	25.16	N/A
SOx	40.0	2.46	0.0	N/A	N/A
NOx	40.0	83.91	0.0013	N/A	N/A
VOC	40.0	6.85	0.0	N/A	N/A
CO	100.0	76.38	0.0	N/A	N/A
HAPs	10.0/25.0	N/D	0.49	N/A	N/A
CO _{2e}	100,000	<100,000	N/D	N/A	N/A

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

Note 1: Except for PM_{2.5} and PM, existing potential emissions taken from Permit No. 082011-004.

Note 2: EIQ does not differentiate between fugitive and non-fugitive emissions.

Note 3: The installation was issued 100,000 tons per year CO_{2e} limit in permit 082011-004, which is still applicable.

However, the facility does not have a new conditioned potential as a result of this permit.

Note 4: Because this facility is not a named source, only non-fugitive emissions are counted towards major source applicability.

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 all pollutants are below *de minimis* levels.

APPLICABLE REQUIREMENTS

Specialty Granules, Inc shall comply with the following applicable requirements. The Missouri Air Conservation Laws and Regulations should be consulted for specific record keeping, monitoring, and reporting requirements. Compliance with these emission standards, based on information submitted in the application, has been verified at the time this application was approved.

GENERAL REQUIREMENTS

- *Submission of Emission Data, Emission Fees and Process Information*, 10 CSR 10-6.110
- *Operating Permits*, 10 CSR 10-6.065
- *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

- *New Source Performance Regulations*, 10 CSR 10-6.070 – *New Source Performance Standards (NSPS) for Nonmetallic Mineral Processing Plants*, 40 CFR Part 60, Subpart OOO

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

Date

PERMIT DOCUMENTS

The following documents are incorporated by reference into this permit:

- The Application for Authority to Construct form, dated February 17, 2012, received February 21, 2012, designating Specialty Granules, Inc. as the owner and operator of the installation.
- U.S. EPA document AP-42, *Compilation of Air Pollutant Emission Factors*, Fifth Edition.

Mr. Gary Pogue
HR Supervisor - Annapolis Plant
Specialty Granules, Inc.
1 Hillcrest Drive
Annapolis, MO 63620

RE: New Source Review Permit - Project Number: 2012-02-060

Dear Mr. Pogue:

Enclosed with this letter is your permit to construct. Please study it carefully. 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 have any questions regarding this permit, please do not hesitate to contact Chia-Wei Young, at the Department of Natural Resources' 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:cyl

Enclosures

c: Southeast Regional Office
PAMS File: 2012-02-060

Permit Number: