

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: 092016-010

Project Number: 2016-06-053
Installation ID: 091-0073

Parent Company: Gabel Stone Company, Inc.

Parent Company Address: 2092 County Road 5900, Willow Springs, MO 65793

Installation Name: Gabel Stone Company, Inc.

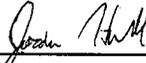
Installation Address: State Highway AM, Willow Springs, MO 65793

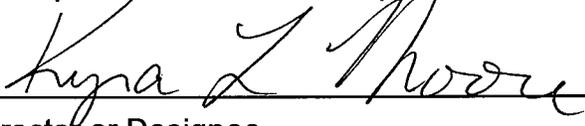
Location Information: Howell County, S15 T27N R10W

Application for Authority to Construct was made for:
Replacing engine and equipment. 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
Jordan Hull
New Source Review Unit


Director or Designee
Department of Natural Resources

SEP 14 2016

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 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's 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 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."

Plant A and Plant B

Site ID Number: 091-0073

Site Name: AM Quarry

Site Address: State Highway AM, Willow Springs, MO 65793

Site County: Howell, S15 T27N R10W

1. **Superseding Condition**

The conditions of this permit supersede all special conditions found in the previously issued construction permit 102013-012 from the Air Pollution Control Program.

2. **Generic Plant Designation and Maximum Combined Hourly Design Rate**

Gabel Stone Company, Inc. 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 and Table 2.

Table 1: Generic Equipment for Plant A

Equipment Type	MHDR	Maximum Number of Units
Primary Unit(s) (Primary Crusher) Jaw Plant	300 tons per hour	1
Scalping Screen 4x10	300 tons per hour	1
Roll Plant	300 tons per hour	1
Screening Plant	300 tons per year	1
Surge Bins	300 tons per year	7
Conveyor(s), Stacker(s)	300 tons per hour	7
Diesel Engine	290 hp	1
Diesel Engine	240 hp	1
Diesel Engine	120 hp	1

SITE SPECIFIC SPECIAL CONDITIONS:

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

Table 2: Generic Equipment for Plant B

Equipment Type	MHDR	Maximum Number of Units
Primary Unit(s) (Primary Crusher) Jaw Plant	300 tons per hour	1
Scalping Screen 4x10	300 tons per hour	1
Roll Plant	300 tons per hour	1
Screening Plant	300 tons per year	1
Surge Bins	300 tons per year	7
Conveyor(s), Stacker(s)	300 tons per hour	7
Diesel Engine	290 hp	1
Diesel Engine	240 hp	1
Diesel Engine	120 hp	1

3. Generic Plant Equipment Identification Requirement

A. Gabel Stone Company, Inc. 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 each 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) Gabel Stone Company, Inc. 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.

SITE SPECIFIC SPECIAL CONDITIONS:

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

B. Gabel Stone Company, Inc. shall maintain a list of the specific equipment currently being utilized with each generic plant. Any arrangement of the generic plant's equipment must be such that the core equipment is not bypassed in the process flow.

4. Daily Production Limit For Rock-Crushing Plant

A. Gabel Stone Company, Inc.'s stationary Jaw Crusher rock-crushing plants (Plant A and Plant B) shall limit its total daily production based on Table 2 using Attachment B, or another equivalent form, that has been approved by the Air Pollution Control Program, including electronic forms.

Table 3: Summary of Daily Production Limits

Type of Operation	Daily Production Limit (tons per day)
^a Solitary (Plant A and/or Plant B)	N/A
^b Separate	14,358

^a Operation of Plant A and/or Plant B without other plants

^b Operation of Plant A and/or Plant B with other plants

5. Equipment Identification Requirement

Gabel Stone Company, Inc. 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.

6. Best Management Practices Requirement

Gabel Stone Company, Inc. shall control fugitive emissions from all of the haul roads and vehicular activity areas at this site by performing BMPs as defined in Attachment AA.

7. Annual Emission Limit

A. Gabel Stone Company, Inc. shall emit less than 15.0 tons of PM10 in any consecutive 12-month period from the entire installation. The entire installation consists of the equipment and processes contained in Table 1 and Table 2.

B. Gabel Stone Company, Inc. shall demonstrate compliance with Special Condition 7.A using Attachment A or another equivalent form that has been approved by the Air Pollution Control Program, including an electronic form.

SITE SPECIFIC SPECIAL CONDITIONS:

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

8. **Moisture Content Testing Requirement**
- A. Gabel Stone Company, Inc. shall verify that the moisture content of the processed rock is greater than or equal to 1.5 percent by weight.
 - B. Testing shall be conducted according to the method prescribed by the American Society for Testing Materials (ASTM) D-2216, C-566 or another method approved by the Director.
 - 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 Gabel Stone Company, Inc. main office within 30 days of completion of the required test.
 - F. If the moisture content of either of the two tests is less than the moisture content in Special Condition 8.A, another test may be performed within 15 days of the noncompliant test. If the results of that test also exceed the limit, Gabel Stone Company, Inc. shall either:
 - 1) Apply for a new permit to account for the revised information, or
 - 2) Submit a plan for the installation of wet spray devices to the Compliance/Enforcement Section of the Air Pollution Control Program within 10 days of the second noncompliant test. The wet spray devices shall be installed and operational within 40 days of the second noncompliant test.
 - G. In lieu of testing, Gabel Stone Company, Inc. may obtain test results that demonstrate compliance with the moisture content in Special Condition 8.A from the supplier of the aggregate.
9. **Minimum Distance to Property Boundary Requirement**
The primary crushers shall be located at least 1561465 feet from the nearest property boundary.

SITE SPECIFIC SPECIAL CONDITIONS:

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

10. **Primary Equipment Requirement**
Gabel Stone Company, Inc. shall process all rock through the primary crushers. Bypassing the primary crusher is prohibited.
11. **Record Keeping Requirement**
Gabel Stone Company, Inc. 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.
12. **Reporting Requirement**
Gabel Stone Company, Inc. shall report to the Air Pollution Control Program Enforcement Section P.O. Box 176, Jefferson City, MO 65102, no later than 10 days after any exceedances of the limitations imposed by this permit.

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

Project Number: 2016-06-053
Installation ID Number: 091-0073

Permit Number: 092016-010

Gabel Stone Company, Inc.
State Highway AM
Willow Springs, MO 65793

Complete: September 8, 2016

Parent Company:
Gabel Stone Company, Inc.
2092 County Road 5900
Willow Springs, MO 65793

Howell County, S15 T27N R10W

PROJECT DESCRIPTION

Gabel Stone Co., Inc. is applying to replace the following equipment in "Plant A" at their AM Quarry. The existing Caterpillar model 3306 diesel engine rated at 240 hp will be replaced by a Cummins Mode; 855 diesel engine rated at 290 hp S/N 10670001, manufactured in the 1960s. The Cedarapids model 443 Commander secondary crushing plant, rated at 300 tons/hour, S/N 25102, will be replaced by a Cedarapids Commander crushing plant, also rated at 300 tons/hour, S/N 23577, manufactured in 1965. The Cedarapids 4'x14' screening plant, S/N 30203, will be replaced by a Cedarapids 5' x 16' screening plant S/N 26757, Manufactured in 1966. Since the primary crusher serves as a "bottleneck" in the process flow, the tons/hour through the replacement screen will be the same as the existing screen.

Since the existing equipment is permitted as part of a generic crushing plant in Permit 102013-012, normally a permit modification would not be required for the crushing plant and screening plant, just notification as specified in special condition 3.A.4. However, since the replacement diesel engine has a higher horse power rating than the existing engine, Gabel is requesting that Table 1 in Special Condition 2 of the previous construction permit be changed to allow for one 290 hp, one 240 hp, and one 120 hp engine instead of the original two 240 hp and the one 120 hp engine. Although Gabel, at this time, only plans to operate the 290 hp engine with "Plant A", for the sake of flexibility, they also request that Table 2 in the previous Special Condition 2 be changed to match Table 1 to allow for the use of the 290 hp diesel engine with "Plant B" when needed.

The installation previously had a 40 ton per year NO_x installation wide limit. With the addition of the new diesel engine the limit is changing to a PM₁₀ installation wide limit

and the NO_x is indirectly conditioned below 40 tons per year by the PM₁₀ limit. A new permit was chosen so that Gabel Stone Company, Inc. could continue to have an installation wide limit.

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 Howell 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 Gabel Stone Company, Inc. from the Air Pollution Control Program.

Table 4 Permit History for AM Quarry

Permit Number	Description
112005-001B	Sec. 4 Relocation to New Site
072007-002A	Sec. 4 Relocation to New Site
072007-002B	Colocation changes
112005-001	The installation of a new portable rock-crushing plant
102013-012	Construction of two generic stationary rock crushing plants.

Table 5 below summarizes the emissions of this project. The existing actual emissions were taken from the 2015 EIQ. Since Plant A and Plant B are identical, the "Potential Emissions of 1 Plant" represents the emissions of all equipment and activities associated with either plant. Potential Emissions of 2 Plants represents the potential emissions of both plants. This assumes continuous operation (8760 hours per year). The conditioned potential emissions include emissions from sources that will limit their production to ensure compliance with the annual emission limit.

Table 5: Emissions Summary (tons per year)

Air Pollutant	De Minimis Level/SMAL	^a Existing Actual Emissions (2015 EIQ)	^b Potential Emissions of 1 Plant	^c Potential Emissions of 2 Plants	^d Conditioned Potential Emissions
PM	25.0	N/A	51.45	102.90	33.81
PM ₁₀	15.0	0.33	22.83	45.65	<15.0
PM _{2.5}	10.0	0.20	12.85	25.69	8.44
SO _x	40.0	N/A	3.40	6.81	22.91
NO _x	40.0	N/A	59.75	119.50	39.26

VOC	40.0	N/A	6.61	13.22	4.34
CO	100.0	N/A	19.02	38.04	12.50
Total HAPs	25.0	N/A	0.08	0.15	0.05

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

^a2015 EIQ emissions are from the pit haul road, shipping haul road and diesel engines. Portable plants have provided the crushing operations.

^bIncludes site specific haul road and storage pile emissions for one of the stationary generic plants.

^cTotal emissions of the two stationary plants at AM Quarry.

^dConditioned emissions are based on a voluntary PM₁₀ limit. Installation Conditioned Potential Emissions are the conditioned potential emissions of the two plants combined.

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 controlled emission factors were used because the inherent moisture content of the crushed rock is greater than 1.5 % by weight.

Emissions from the diesel engines were calculated using emission factors from AP-42 Section 3.3 Gasoline and Diesel Industrial Engines," October 1996.

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 PM₁₀ and a 40% control efficiency for PM_{2.5} were applied to the emission calculations for the use of BMPs. Emissions from load-in and load-out of storage piles were calculated using the predictive equation from AP-42 Section 13.2.4. The moisture content of the aggregate is 1.5% by weight. Emissions from wind erosion of storage piles were calculated using an equation found in the Air Pollution Control Program's Emissions Inventory Questionnaire Form 2.8 "Storage Pile Worksheet."

OPERATING SCENARIOS

The Air Pollution Control Program has updated its construction industry policy "Ceasing the Use of Nomographs" dated May 1, 2016 to estimate the plant's ambient impact.

When removing an Ambient Air Impact Limitation for PM₁₀ a daily throughput limitation is required if the maximum modeled impact is above 80.00 µg/m³ when operating solitary or with the same owner. According to Table 6 of Permit #102013-012 the

maximum modeled impact for PM₁₀ was 27.87 µg/m³ when operating with the same owner or solitary. As a result no daily throughput limitation is needed when operating with the one or two plants.

Gabel Stone Company, Inc. is permitted to operate with other plants located at the site as long as the following scenarios are maintained. These scenarios are also summarized in the table below.

- When operating Plant A and/or Plant B, referred to as solitary operation, Gabel Stone Company, Inc. does not have a daily throughput limitation.
- When operating with other plants, Gabel Stone Company, Inc. may produce up to 14,358 tons of rock per day in plant A & B.

Table 6: Summary of Daily Production Limits

Type of Operation	Daily Production Limit
^a Solitary (Plant A and/or B)	N/A
^b Separate	14,358

^a Operation of Plant A and/or Plant B without other plants

^b Operation of Plant A and/or Plant B with other plants

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 PM₁₀ are conditioned below de minimis levels. Potential emissions of PM are above de minimis level but below the major source level

APPLICABLE REQUIREMENTS

Gabel Stone Company, 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.
- An amendment to the most recent Basic Operating Permit is required for this installation within 30 days of commencement of operations.

- *Restriction of Particulate Matter to the Ambient Air Beyond the Premises of Origin, 10 CSR 10-6.170*
- *Restriction of Emission of Visible Air Contaminants, 10 CSR 10-6.220*
- *Restriction of Emission of Odors, 10 CSR 10-6.165*

SPECIFIC REQUIREMENTS

- *Restriction of Emission of Particulate Matter From Industrial Processes, 10 CSR 10-6.400*
- 40 CFR 60 Subpart OOO, "Standards of Performance for Nonmetallic Mineral Processing Plants" applies to the equipment. 40 CFR 60 Subpart IIII, "Standards of Performance for Stationary Compression Ignition Internal Combustion Engines" applies to the equipment.
- 40 CFR 60 Subpart IIII, "Standards of Performance for Stationary Compression Ignition Internal Combustion Engines" applies to the diesel engines on the generic equipment list that were manufactured after 04/01/2006 or modified/reconstructed after 7/11/2005.
- 40 CFR Part 63 Subpart ZZZZ, "National Emission Standard for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines" applies to the equipment.
- *Restriction of Emission of Sulfur Compounds, 10 CSR 10-6.260, and Control of Control of Sulfur Dioxide Emissions, 10 CSR 10-6.261*
 - *10 CSR 10-6.260 was rescinded on November 30, 2015 and replaced by 10 CSR 10-6.261 in the Code of State Regulations. However, it has not yet been removed from Missouri State Implementation Plan (SIP) and as such, still remains an enforceable regulation if applicable.*
 - *10 CSR 10-6.260 does not apply to emission sources subject to an applicable sulfur compound emission limit under 10 CSR 10-6.070 or if the equipment uses exclusively pipeline grade natural gas as defined in 40 CFR 72.2 or liquefied petroleum gas as defined by ASTM, or any combination of these fuels.*
 - *10 CSR 10-6.261 does not apply to emission sources subject to a more restrictive sulfur compound emission or content limit under 10 CSR 10-6.070 or any other federally enforceable permit, if the equipment uses exclusively pipeline grade natural gas as defined in 40 CFR 72.2 or liquefied petroleum gas as defined by ASTM, or any combination of these fuels, or if the rated capacity for an individual indirect heating unit is less than or equal to 0.35 MMBtu/hr.*

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 June 20, 2016, received June 27, 2016, designating Gabel Stone Company, Inc. 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

%	percent	MMBtu ...	Million British thermal units
°F	degrees Fahrenheit	MMCF	million cubic feet
acfm	actual cubic feet per minute	MSDS	Material Safety Data Sheet
BACT	Best Available Control Technology	NAAQS ..	National Ambient Air Quality Standards
BMPs	Best Management Practices	NESHAPs ..	National Emissions Standards for Hazardous Air Pollutants
Btu	British thermal unit	NO_x	nitrogen oxides
CAM	Compliance Assurance Monitoring	NSPS	New Source Performance Standards
CAS	Chemical Abstracts Service	NSR	New Source Review
CEMS	Continuous Emission Monitor System	PM	particulate matter
CFR	Code of Federal Regulations	PM_{2.5}	particulate matter less than 2.5 microns in aerodynamic diameter
CO	carbon monoxide	PM₁₀	particulate matter less than 10 microns in aerodynamic diameter
CO₂	carbon dioxide	ppm	parts per million
CO_{2e}	carbon dioxide equivalent	PSD	Prevention of Significant Deterioration
COMS	Continuous Opacity Monitoring System	PTE	potential to emit
CSR	Code of State Regulations	RACT	Reasonable Available Control Technology
dscf	dry standard cubic feet	RAL	Risk Assessment Level
EIQ	Emission Inventory Questionnaire	SCC	Source Classification Code
EP	Emission Point	scfm	standard cubic feet per minute
EPA	Environmental Protection Agency	SDS	Safety Data Sheet
EU	Emission Unit	SIC	Standard Industrial Classification
fps	feet per second	SIP	State Implementation Plan
ft	feet	SMAL	Screening Model Action Levels
GACT	Generally Available Control Technology	SO_x	sulfur oxides
GHG	Greenhouse Gas	SO₂	sulfur dioxide
gpm	gallons per minute	tph	tons per hour
gr	grains	tpy	tons per year
GWP	Global Warming Potential	VMT	vehicle miles traveled
HAP	Hazardous Air Pollutant	VOC	Volatile Organic Compound
hr	hour		
hp	horsepower		
lb	pound		
lbs/hr	pounds per hour		
MACT	Maximum Achievable Control Technology		
µg/m³	micrograms per cubic meter		
m/s	meters per second		
Mgal	1,000 gallons		
MW	megawatt		
MHDR	maximum hourly design rate		



Jeremiah W. (Jay) Nixon, Governor • Sara Parker Pauley, Director

DEPARTMENT OF NATURAL RESOURCES

www.dnr.mo.gov

SEP 14 2016

Mr. Gary Gabel
President
Gabel Stone Company, Inc.
2092 County Road 5900
Willow Springs, MO 65793

RE: New Source Review Permit - Project Number: 2016-06-053

Dear Mr. Gabel:

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.

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

Mr. Gary Gabel
Page Two

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.aa.mo.gov/ahc.

If you have any questions regarding this Authority to Construct Permit, please do not hesitate to contact Jordan Hull, 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:shj

Enclosures

c: Southeast Regional Office
PAMS File: 2016-06-053

Permit Number: 092016-010