



## 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: 092012-002

Project Number: 2012-05-095  
Installation Number: 013-0044

Parent Company: Heiman Agri-Services, Inc.

Parent Company Address: 717 W. Pine Street, Butler, MO 64730

Installation Name: Heiman Agri-Services, Inc.

Installation Address: 717 W. Pine Street, Butler, MO 64730

Location Information: Bates County, S22, T40N, R31W

Application for Authority to Construct was made for:  
Construction of a receiving pit, new grain leg, storage bin, shipping area, and associated 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.

SEP 05 2012

EFFECTIVE DATE

  
\_\_\_\_\_  
DIRECTOR OR DESIGNEE  
DEPARTMENT OF NATURAL RESOURCES

STATE OF MISSOURI



DEPARTMENT OF NATURAL RESOURCES

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EFFECTIVE DATE

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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.

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Permit No.	
Project No.	2012-05-095

#### 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."*

Heiman Agri-Services, Inc.  
Bates County, S22, T40N, R31W

1. Particulate matter less than 10 microns in diameter (PM<sub>10</sub>) Emission Limitation
  - A. Heiman Agri-Services, Inc. shall emit less than 15.0 tons of PM<sub>10</sub> in any consecutive 12-month period from this project as defined in Table 1.
  - B. Attachment A or equivalent forms, such as electronic forms, approved by the Air Pollution Control Program shall be used to demonstrate compliance with Special Conditions 1.A.
2. Record Keeping and Reporting Requirements
  - A. Heiman Agri-Services, 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. These records shall include Material Safety Data Sheets (MSDS) for all materials used
  - B. Heiman Agri-Services, Inc. shall report to the Air Pollution Control Program's Compliance/Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, no later than ten days after the end of the month during which any record required by this permit show an exceedance of a limitation imposed by this permit.

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

Project Number: 2012-05-095  
Installation ID Number: 013-0044  
Permit Number:

Heiman Agri-Services, Inc.  
717 W. Pine Street  
Butler, MO 64730

Complete: May 25, 2012

Parent Company:  
Heiman Agri-Services, Inc.  
717 W. Pine Street  
Butler, MO 64730

Bates County, S22, T40N, R31W

REVIEW SUMMARY

- Heiman Agri-Services, Inc. has applied for authority to construct 358,000 bushel capacity storage bin, a grain leg that will process 360 tons per hour and associated receiving and shipping equipment.
- Hazardous Air Pollutant (HAP) emissions are not expected from the proposed equipment.
- None of the New Source Performance Standards (NSPS) apply to the installation.
- 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.
- No air pollution control equipment is being used in association with the new equipment.
- 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<sub>10</sub> are conditioned below de minimis levels, and indirectly conditioned particulate matter (PM) remains above de minimis level, but below major source levels.
- This installation is located in Bates 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 since conditioned potential PM<sub>10</sub> emissions of the application are below de minimis levels, and there are no modeling standards for particulate matter (PM).
- Emissions testing is not required for the equipment.
- A Basic Operating Permit application is required for this installation within 30 days of equipment startup.
- Approval of this permit is recommended with special conditions.

### INSTALLATION DESCRIPTION

Heiman Agri-Services, Inc. is an agricultural business located in Bates County. Heiman Agri-Service, Inc. purchased this installation in 1984 from Buerge Farm Supply. This project is being constructed at a previously grand-fathered facility (constructed prior to May 13,1982). The following Table 1 lists the new equipment at the installation.

Table 1: Heiman Agri-Services, Inc. Equipment List and Emission Points

Emission Points	Project Equipment
EU-20	Receiving-Hopper Truck
EU-21	Grain Leg/Handling
EU-22	Storage Bin (vent)
EU-23A	Shipping, truck
EU-23B	Shipping, railcar
EU-24A	Haul Road #1/Grain Receiving
EU-24B	Haul Road #2/Grain Shipping

No construction permits have been issued to Heiman Agri-Services, Inc. from the Air Pollution Control Program, however Heiman Agri-Services, Inc. does have a Basic Operating Permit which expires December 6, 2016.

### PROJECT DESCRIPTION

Heiman Agri-Services, Inc. proposes to add a new grain elevator and storage bin for corn and soybean handling. Corn and soybean product will be off loaded from straight/hopper trucks (majority will be hopper trucks) into a receiving pit. The new leg will transport that into the grain bin. The bin has a capacity of 385,000 bushels. There are 30 roof vents and 2 fans (31,240 CFM) on the bin. The leg can process 360 tons per hour maximum. Material will come back from the grain bin to the leg via enclosed conveyor, then elevated to a grain load-out. Heiman Agri-Services, Inc. will be loading out to truck and rail. According to the applicant, the majority of the grain will be loaded out via rail. There are no emission controls.

The existing licensed grain storage capacity for Heiman Agri-Services, Inc. according to the Missouri Department of Agriculture licensed grain dealer/warehouse database was listed at 1,398,000 bushels and with the new additional bin of 385,000 bushels the total

capacity would be 1,783,000 bushels, therefore it will be less than 2.5 million bushels. Therefore the installation is not defined as a grain terminal elevator under NSPS Subpart DD. The installation does not include a wheat flour mill, wet corn mill, dry corn mill (human consumption), rice mill, or soybean oil extraction plant. Therefore the installation is not defined as a grain storage elevator under NSPS Subpart DD.

### EMISSIONS/CONTROLS EVALUATION

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, Section 9.9.1 *Grain Elevators and Processes*, May 2003. Haul road emissions were calculated using AP-42, Section 13.2.2, *Unpaved Roads*, November 2006.

Grain will be received by a combination of straight and hopper trucks. The grain receiving (EU20) emissions were calculated using the most conservative scenario of 100 percent receiving by straight trucks. This method avoids a special condition and record keeping for amount that was received by straight/hopper trucks.

Grain will be shipped by a combination of hopper trucks and railcar. The grain shipping (EU23A and EU23B) emissions were calculated using the most conservative scenario of 100 percent shipping by trucks. This method avoids a special condition and record keeping for amount that was shipped by truck/railcar.

The following table provides an emissions summary for this project. Existing potential emissions were not calculated. Existing actual emissions were taken from the installation's 2011 Emission Inventory Questionnaire (EIQ). Potential emissions of the application represent the potential of the new equipment, assuming continuous operation (8,760 hours per year).

Table 2: Emissions Summary (tons per year)

Pollutant	Regulatory <i>De Minimis</i> Levels	Existing Potential Emissions	Existing Actual Emissions (2011 EIQ)	Potential Emissions of the Application	Conditioned Potential Emissions of the Application
PM	25.0	N/D	N/D	650.26	42.50
PM <sub>10</sub>	15.0	N/D	3.42	229.51	<15.0
PM <sub>2.5</sub>	10.0	N/D	0.49	37.10	2.42
SO <sub>x</sub>	40.0	N/D	N/D	N/A	N/D
NO <sub>x</sub>	40.0	N/D	N/D	N/A	N/D
VOC	40.0	N/D	N/D	N/A	N/D
CO	100.0	N/D	N/D	N/A	N/D
HAPs	10.0/25.0	N/D	N/D	N/A	N/D

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

## 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<sub>10</sub> are conditioned below de minimis levels, and indirectly conditioned particulate matter (PM) remains above de minimis level, but below major source levels.

## APPLICABLE REQUIREMENTS

Heiman Agri-Services, 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. 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
- *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

- *Restriction of Emission of Particulate Matter From Industrial Processes*, 10 CSR 10-6.400. Storage bin vents potential emission rate of 9.0 pounds per hour of PM complies with this regulation.

## 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.

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Kathy Kolb  
Environmental Engineer

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Date

### PERMIT DOCUMENTS

The following documents are incorporated by reference into this permit:

- The Application for Authority to Construct form, dated May 24, 2012, received May 25, 2012, designating Heiman Agri-Services, Inc. as the owner and operator of the installation.
- U.S. EPA document AP-42, *Compilation of Air Pollutant Emission Factors*, Fifth Edition.
- Missouri Department of Agriculture Grain Database, Licensed Grain Dealer/Warehouse Listings, 2012



Mr. Scott Heiman  
President  
Heiman Agri-Services, Inc.  
P.O. Box 29  
Butler, MO 64730

RE: New Source Review Permit - Project Number: 2012-05-095

Dear Mr. Heiman:

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 Kathy Kolb, 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:kk1

Enclosures

c: Kansas City Regional Office  
PAMS File: 2012-05-095

Permit Number:

MISSOURI DEPARTMENT OF NATURAL RESOURCES  
FOLDER TRANSMITTAL ROUTING SHEET

Document #:  
Division Log #:  
Program Log #:

DEADLINE:

Penalty for Missing Deadline: \$

Heiman Agri-Services, Inc.

2012-05-095

Originator: Kathy Kolb

Telephone: 6-3835

Date: 9/6/2012

Typist: Linda

File Name: P:\APCP\Permits\Users\Kathy Kolb\90 day permit\Agriculture\2012-05-095 Heiman Agri-  
Inc.docm

FOR SIGNATURE APPROVAL OF:

DNR Director    DNR Deputy Director    Division Director    Division Deputy Director   X Other: Kyra L. Moore

PROGRAM APPROVAL: Approved by: \_\_\_\_\_ Program: APCP Date: \_\_\_\_\_

Other Program Approval (Section/Unit): \_\_\_\_\_ Date: \_\_\_\_\_

Comments:

ROUTE TO:

DIVISION DIRECTOR APPROVAL: \_\_\_\_\_ Date: \_\_\_\_\_

Comments:

FINANCIAL REVIEW – DIVISION OF ADMINISTRATIVE SUPPORT:

DAS Director: \_\_\_\_\_

Date: \_\_\_\_\_

Fee Worksheet Received By: \_\_\_\_\_

Date: \_\_\_\_\_

Accounting: \_\_\_\_\_

Date: \_\_\_\_\_

Budget: \_\_\_\_\_

Date: \_\_\_\_\_

General Services: \_\_\_\_\_

Date: \_\_\_\_\_

Internal Audit: \_\_\_\_\_

Date: \_\_\_\_\_

Purchasing: \_\_\_\_\_

Date: \_\_\_\_\_

Comments:

LEGAL REVIEW:

General Counsel: \_\_\_\_\_

Date: \_\_\_\_\_

AGO: \_\_\_\_\_

Date: \_\_\_\_\_

Comments:

DEPARTMENT DIRECTOR APPROVAL: \_\_\_\_\_

Date: \_\_\_\_\_

Comments:

NOTARIZATION NEEDED

INITIALS/DATE