

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: 092016-014      Project Number: 2015-08-002  
Installation Number: 033-0023

Parent Company: Ray-Carroll County Grain Growers, Inc.

Parent Company Address: P.O. Box 158, Richmond, MO 64085

Installation Name: Ray-Carroll County Grain Growers, Inc.

Installation Address: 26274 Highway 24 East, Carrollton, MO 64633

Location Information: Carroll County (S35, T53N, R23W)

Application for Authority to Construct was made for:  
The revision of grain and fertilizer receiving and shipping rates at the existing grain elevator.  
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.

A handwritten signature in black ink, appearing to read "Ryan Schott".

Prepared by  
Ryan Schott  
New Source Review Unit

A handwritten signature in black ink, appearing to read "Kyla L. Moore".

Director or Designee  
Department of Natural Resources

SEP 21 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 startup of this (these) air contaminant source(s). The information must be made available within 30 days of actual startup. Also, you must notify the Department's regional office responsible for the area within which you are located within 15 days after the actual startup of this (these) air contaminant source(s).

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

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

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

The Air Pollution Control Program invites your questions regarding this air pollution permit. Please contact the Construction Permit Unit using the contact information below.

Contact Information:  
Missouri Department of Natural Resources  
Air Pollution Control Program  
P.O. Box 176  
Jefferson City, MO 65102-0176  
(573) 751-4817

The regional office information can be found at the following website:  
<http://dnr.mo.gov/regions/>

**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."*

Ray-Carroll County Grain Growers, Inc.  
Carroll County (S35, T53N, R23W)

1. **Superseding Condition**

The conditions of this permit supersede all special conditions from Construction Permits 082014-019 & 122010-010, previously issued by the Air Pollution Control Program.

2. **Control Device Requirement – Ventilation System & High Efficiency Cyclone**

A. Ray-Carroll County Grain Growers, Inc. shall capture and control emissions from the following equipment using a high velocity, baffled ventilation system and a high efficiency cyclone, as specified in the permit application.

- 1) Truck Receiving EP-1A
- 2) Grain Handling Legs EP-2
- 3) Shipping Leg EP-6

B. Ray-Carroll County Grain Growers, Inc. shall operate the ventilation system at all times when grain is being received and loaded out.

C. The cyclone shall be operated and maintained in accordance with the manufacturer's specifications. The cyclone shall be equipped with a gauge or meter, which indicates the pressure drop across the control device. This gauge or meter shall be located such that Department of Natural Resources' employees may easily observe it.

D. Ray-Carroll County Grain Growers, Inc. shall monitor and record the operating pressure drop across the cyclone 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. Ray-Carroll County Grain Growers, Inc. shall maintain an operating and maintenance log for the ventilation system and high efficiency cyclone, which shall include the following:

- 1) Incidents of malfunction, with impact on capture efficiency, duration of event, probable cause, and corrective actions; and
- 2) Maintenance activities, with inspection schedule, repair actions, and replacements, etc.

**SPECIAL CONDITIONS:**

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

3. **Control Device Requirement – Fertilizer Receiving and Loadout**
  - A. Ray-Carroll County Grain Growers, Inc. shall use choke flow when receiving fertilizer (EP-11) to control potential particulate emissions.
  - B. Ray-Carroll County Grain Growers, Inc. shall install a flexible drop sleeve on the fertilizer truck loadout (EP-14) spout, such that the end of the sleeve is located within the top of the truck bed. The drop sleeve must be constructed of material appropriate for the handling of fertilizer.
4. **Fertilizer Operational Restrictions**
  - A. Ray-Carroll County Grain Growers, Inc. shall restrict the receiving and shipping operations of their fertilizer plant to no more than 12 hours per 24 hour period.
  - B. To demonstrate compliance with Special Condition 4.A, Ray-Carroll County Grain Growers, Inc. shall keep a written or electronic record of the daily amount of fertilizer received and shipped at the installation.
5. **Grain Elevator Operational Restrictions**
  - A. Ray-Carroll County Grain Growers, Inc. shall restrict operation of the front half of their grain elevator, consisting of the grain receiving pit (EP-1A), grain handling (EP-2), and storage silos (EP-4A, EP-4B2 & EP-4C – EP-4H) in accordance with the following scenarios.
    - 1) **Spring Season (January – June)**  
Ray-Carroll County Grain Growers, Inc. may operate the front half of their grain elevator without restriction.
    - 2) **Fall Season (July – November)**  
Ray-Carroll County Grain Growers, Inc. shall only operate the front half of their grain elevator between 7:00 AM and 9:00 PM.
    - 3) **Winter Season (December)**  
Ray-Carroll County Grain Growers, Inc. shall only operate the front half of their grain elevator between 7:00 AM and 7:00 PM.
  - B. To demonstrate compliance with Special Condition 5.A, Ray-Carroll County Grain Growers, Inc. shall keep a written or electronic record of the daily amount of grain received at the installation.
6. **Truck Loading & Unloading Operational Restrictions**
  - A. Ray-Carroll County Grain Growers, Inc. shall restrict the loadout of grain trucks (EP-7A) and the unloading of grain trucks (EP-1A) from outside sources in accordance with the following scenarios.
    - 1) **Spring, Summer & Fall Seasons (March – November)**  
Ray-Carroll County Grain Growers, Inc. shall only loadout grain

**SPECIAL CONDITIONS:**

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

trucks and/ or receive grain from outside sources between 7:00 AM and 9:00 PM.

- 2) Winter Season (December – February)  
Ray-Carroll County Grain Growers, Inc. shall only loadout grain trucks and/ or receive grain from outside sources between 7:00 AM and 7:00 PM.

- B. To demonstrate compliance with Special Condition 6.A, Ray-Carroll County Grain Growers, Inc. shall keep a written or electronic record of the daily amount of grain loaded out by trucks at the installation.

7. Grain Dryer Operational Restrictions

- A. Ray-Carroll County Grain Growers, Inc. shall restrict the operation of their grain dryer (EP-9) in accordance with the following scenarios.

- 1) Non-Harvest Season (December – July)  
Ray-Carroll County Grain Growers, Inc. shall only operate their grain dryer between 10:00 AM and 3:00 PM.

- 2) Harvest Season (August – November)  
Ray-Carroll County Grain Growers, Inc. may operate their grain dryer without any restrictions.

- B. To demonstrate compliance with Special Condition 7.A, Ray-Carroll County Grain Growers, Inc. shall keep a written or electronic record of the daily amount of grain dried at the installation.

8. Shipping Leg Operational Restrictions

- A. Ray-Carroll County Grain Growers, Inc. shall only ship grain to Show-Me Ethanol between 7:00 AM and 7:00 PM.

- B. To demonstrate compliance with Special Condition 8.A, Ray-Carroll County Grain Growers, Inc. shall keep a written or electronic record of the daily amount of grain shipped to Show-Me Ethanol.

9. Rail Loading & Receiving Limitations

- A. Ray-Carroll County Grain Growers, Inc. shall limit the amount of grain loaded out by rail (EP-7B) at the grain elevator to 11,200 tons per day.

- B. Ray-Carroll County Grain Growers, Inc. shall apply mineral oil to all grain being loaded out by rail. The mineral oil shall be applied at a rate of at least 1 quart per 1,000 bushels.

**SPECIAL CONDITIONS:**

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

- C. Ray-Carroll County Grain Growers, Inc. shall not receive any grain at the grain elevator by rail without first notifying and receiving written consent from the Air Pollution Control Program's Enforcement Section.
  - D. To demonstrate compliance with Special Condition 9.A, Ray-Carroll County Grain Growers, Inc. shall keep a written or electronic record of the daily amount of grain loaded out by rail at the installation.
10. Temporary Storage Pile Restrictions
- A. Ray-Carroll County Grain Growers, Inc. shall only fill their temporary corn storage pile (EP-4B) during the months of September and October.
  - B. Ray-Carroll County Grain Growers, Inc. may empty their temporary corn storage pile without restriction during the months of January – June.
  - C. To demonstrate compliance with Special Conditions 10.A & 10.B, Ray-Carroll County Grain Growers, Inc. shall keep a written or electronic record of the daily amount of grain stored in the installation's temporary storage pile.
11. Haul Road Management Requirements
- A. Ray-Carroll County Grain Growers, Inc. shall pave all haul roads at the grain elevator with materials such as asphalt or concrete. The pavement shall be applied in accordance with industry standards, as to achieve control of fugitive emissions while the plant is operating.
  - B. Maintenance and/or repair of the road surfaces shall be conducted as necessary to ensure the physical integrity of the pavement is adequate to achieve control of fugitive emissions.
  - C. Ray-Carroll County Grain Growers, Inc. shall periodically water, wash, and/or otherwise clean all paved portions of the haul road as necessary to achieve control of fugitive emissions while the plant is operating.
12. Record Keeping and Reporting Requirements
- A. Ray-Carroll County Grain Growers, 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.
  - B. Ray-Carroll County Grain Growers, Inc. shall report to the Air Pollution Control Program's Compliance/ Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, no later than 10 days after the end of the month during which any record required by this permit shows an exceedance of a limitation imposed by this permit.

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

Project Number: 2015-08-002

Installation ID Number: 033-0023

Permit Number: **092016-014**

Installation Address:

Ray-Carroll County Grain Growers, Inc.  
26274 Highway 24 East  
Carrollton, MO 64633  
Carroll County (S35, T53N, R23W)

Parent Company:

Ray-Carroll County Grain Growers, Inc.  
P.O. Box 158  
Richmond, MO 64085

REVIEW SUMMARY

- Ray-Carroll County Grain Growers, Inc. has applied for authority to revise grain and fertilizer receiving and shipping rates at the existing grain elevator.
- The application was deemed complete on August 7, 2015.
- HAP emissions are not expected from the proposed equipment.
- None of the NSPS apply to the installation. 40 CFR 60, Subpart DD – *Standards of Performance for Grain Elevators* does not apply to the installation because the maximum grain storage capacity is less than 2.5 million bushels.
- None of the NESHAPs apply to this installation. None of the currently promulgated MACT regulations apply to the proposed equipment.
- A cyclone, choke flow, and drop sleeves/chutes are being used to control particulate matter 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 all pollutants are below de minimis levels.
- This installation is located in Carroll 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 performed to determine the ambient impact of PM<sub>10</sub> and PM<sub>2.5</sub>.
- Emissions testing is not required for the equipment.

- Submittal of an amendment to your Part 70 Operating Permit is required within 1 year of equipment startup.
- Approval of this permit is recommended with special conditions.

### INSTALLATION DESCRIPTION

Ray-Carroll County Grain Growers, Inc. operates a grain elevator in Carrollton, Missouri. It is considered one installation (033-0023) with Show-Me Ethanol, LLC and Ray-Carroll Fuels, LLC. The combined installation is a minor source for PM<sub>10</sub>, SO<sub>x</sub>, NO<sub>x</sub>, VOCs, and CO under construction permits and currently has three Part 70 Operating Permits under review, one for each of the three facilities (Project Numbers 2011-06-007, 2011-06-008 & 2011-06-009).

The following New Source Review permits have been issued to Ray-Carroll County Grain Growers, Inc. from the Air Pollution Control Program.

Table 1: Permit History

Permit Number	Description
0494-019	Grain elevator
0596-014	Fertilizer distribution
012003-009	Throughputs and loadouts
042008-004	Ethanol plant
042008-005	Increase production
072008-003	Add fuel station
042008-004A	Revised modeling
072008-003A	Revised modeling
042008-005A	Fuel station and elevator modeling
042008-004B	Revised modeling for Show-Me Ethanol
122010-010	New grain dryer
082014-019	Replaced two pits and elevator legs
122015-005	Increase production at Show-Me Ethanol

### PROJECT DESCRIPTION

Ray-Carroll County Grain Growers, Inc. is proposing to increase the receiving rate of grain at the grain elevator and increase the amount of fertilizer received/ shipped at the grain elevator. No new equipment is being installed, and the maximum design rates of the equipment are not changing, but the previous throughput and operational restrictions are being altered. The increase in hourly throughput, as well as the increase in haul road activity will cause the ambient impact of PM<sub>10</sub> and PM<sub>2.5</sub> to increase significantly; in order to allow for these changes, receiving/ shipping rates and other operations at the facility will be limited by time-of-day and seasonal operating requirements. These restrictions will allow for an increased annual throughput while maintaining compliance with daily limits and the NAAQS for PM<sub>10</sub> and PM<sub>2.5</sub>.

## EMISSIONS/ CONTROLS EVALUATION

The emission factors and control efficiencies used in this analysis were obtained from the EPA document AP-42, *Compilation of Air Pollutant Emission Factors*, Fifth Edition, Section 9.9.1 *Grain Elevators and Processes* (May 2003), Section 8.3 *Ammonium Nitrate* (July 1993), and Section 13.21 *Paved Roads* (January 2011).

Particulate emissions from truck receiving (EP-1A) are captured by a ventilation system, which was given a 90% capture efficiency for PM, PM<sub>10</sub>, and PM<sub>2.5</sub> after reviewing the equipment specifications and observing the receiving process. The grain handling legs (EP-2) and the shipping leg (EP-6) are completely enclosed, and were therefore given a 100% capture efficiency. EP-1A, EP-2, and EP-6 are all controlled by a high efficiency cyclone, which has a 94% control efficiency for PM and PM<sub>10</sub>, and an 80% control efficiency for PM<sub>2.5</sub>. Emissions from EP-6 were not included in the potential emissions for this project because there is no potential increase in emissions.

Ray-Carroll County Grain Growers, Inc. is using choke flow to prevent and control particulate emissions from fertilizer receiving (EP-11). The use of choke flow was given a control efficiency of 90% for PM, PM<sub>10</sub>, and PM<sub>2.5</sub>. Particulate emissions from fertilizer truck loading (EP-14) are controlled by a drop chute, which was given a 60% control efficiency for PM, PM<sub>10</sub>, and PM<sub>2.5</sub>.

Ray-Carroll County Grain Growers, Inc. had previously controlled particulate emissions from truck loadout (EP-7A) through the application of mineral oil to the grain and the use of a drop chute. Mineral oil will no longer be required to be applied to the grain being loaded out by truck; therefore, particulate emissions are now only controlled by the use of a drop chute, similar to the one used on the fertilizer truck loading spout. Mineral oil will, however, be applied to all grain being shipped by rail.

The change in grain and fertilizer shipping and receiving rates causes an increase in subsequent haul road emissions at the installation. The haul roads were broken down into individual segments and their use was limited by the same time-of-day and seasonal operational restrictions as the grain elevator. All paved haul road segments were given an approved silt load value of 0.45 g/m<sup>2</sup>.

The following table provides an emissions summary for this project. Existing potential emissions were taken from the installation's previous construction permit (082014-019). Existing actual emissions were taken from the installation's 2014 EIQ. Potential emissions of the project represent the total potential of all emission sources affected by this project, assuming continuous operation at the restricted hourly and seasonal rates imposed by Special Conditions 4 – 10. The emissions increase of the project represents the difference in potential emissions of the affected emission sources at the revised operating rates and at the previous operating rates. The new installation conditioned potential represents the emissions increase added to the existing potential emissions.

Table 2: Emissions Summary (tons per year)

Pollutant	Regulatory <i>De Minimis</i> Levels	Ray-Carroll Existing Potential Emissions	Existing Actual Emissions (2014 EIQ)	Potential Emissions of the Project	Emissions Increase of the Project	New Installation Conditioned Potential
PM	25.0	N/D	N/D	115.84	23.83	N/D
PM <sub>10</sub>	15.0	44.61	4.17	32.55	6.34	50.95
PM <sub>2.5</sub>	10.0	N/D	0.60	7.96	1.71	N/D
SO <sub>x</sub>	40.0	1.41	0.06	N/A	N/A	1.41
NO <sub>x</sub>	40.0	12.25	0.54	N/A	N/A	12.25
VOC	40.0	0.94	0.04	N/A	N/A	0.94
CO	100.0	7.07	0.31	N/A	N/A	7.07
Total HAPs	25.0	0.16	N/D	N/A	N/A	0.16

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 all pollutants are below de minimis levels.

#### APPLICABLE REQUIREMENTS

Ray-Carroll County Grain Growers, 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
  - Per 10 CSR 10-6.110(4)(B)2.A, a full EIQ is required annually.
- *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

#### AMBIENT AIR QUALITY IMPACT ANALYSIS

Ambient air quality modeling was performed to determine the ambient impact of PM<sub>10</sub> and PM<sub>2.5</sub> because the potential emissions of these pollutants were each above their respective de minimis level. A NAAQS compliance demonstration was required because PM<sub>10</sub> and PM<sub>2.5</sub> both exceeded their respective significance levels outline in 10 CSR 10-6.060(11)(D) Table 4. Results show that the facility is in compliance with the NAAQS for both PM<sub>10</sub> and PM<sub>2.5</sub>. In addition to demonstrating compliance with the NAAQS for PM<sub>10</sub>, Ray-Carroll County Grain Growers, Inc. must demonstrate that they will not deteriorate the air quality beyond the limits outlined in 10 CSR 10-6.060 (11)(A) Table 1. Results show that the facility is in compliance with the increment for PM<sub>10</sub>.

More information regarding the AAQIA can be found in the memorandum, "Ambient Air Quality Impact Analysis (AAQIA) for Ray Carroll County Grain Growers & Show Me Ethanol, LLC – July 2016 Revision 3," dated August 19, 2016.

#### 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 July 29, 2015, received August 3, 2015, designating Ray-Carroll County Grain Growers, Inc. as the owner and operator of the installation.
- The memo titled, "Ambient Air Quality Impact Analysis (AAQIA) for Ray Carroll County Grain Growers & Show Me Ethanol, LLC – July 2016 Revision 3," dated August 19, 2016.

## APPENDIX A

### Abbreviations and Acronyms

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



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

## DEPARTMENT OF NATURAL RESOURCES

[www.dnr.mo.gov](http://www.dnr.mo.gov)

**SEP 21 2016**

Mr. Tim Phillips  
Operations Manager  
Ray-Carroll County Grain Growers, Inc.  
P.O. Box 158  
Richmond, MO 64085

RE: New Source Review Permit - Project Number: 2015-08-002

Dear Mr. Phillips:

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 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.oha.mo.gov/ahc](http://www.oha.mo.gov/ahc).

Mr. Tim Phillips  
Page Two

If you have any questions regarding this permit, please do not hesitate to contact Ryan Schott, 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:rsj

Enclosures

c: Northeast Regional Office  
PAMS File: 2015-08-002

Permit Number: 092016 - 014