



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

# STATE OF MISSOURI DEPARTMENT OF NATURAL RESOURCES

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**JUN 02 2016**

Mr. John Baumgartner  
 ADM Plant Manager  
 Archer Daniels Midland Company  
 17700 South Highway T  
 Deerfield, MO 64741

RE: New Source Review Temporary Permit Request - Project Number: 2016-05-028

Installation ID Number: 217-0043

Expiration Date: October 1, 2016

Temporary Permit Number:

**062016-003**

Dear Mr. Baumgartner

The Missouri Department of Natural Resources' Air Pollution Control Program has completed a review of your request to install a 99.9 MMBtu/hr natural gas-fired temporary boiler at Archer Daniels Midland Processing located in Deerfield, Missouri. The Air Pollution Control Program is hereby granting your request to conduct this temporary operation at this location in accordance with Missouri State Rule 10 CSR 10-6.060(3).

Your application indicates that the temporary boiler will only be used while EU-17 Nebraska Boiler is undergoing refractory maintenance and installation of a condensing economizer heat recovery system. You anticipate operation of the temporary boiler to be from June 3, 2016 to July 1, 2016. Operation of the temporary boiler is being allowed until October 1, 2016; additional time has been included as a cushion against any delays in the maintenance and modification of EU-17. Emissions from the operation of the temporary boiler are based on 2,952 hours (June 1, 2016 – October 1, 2016) and are indicated in Table 1.

**Table 1: Temporary Boiler Emissions Summary (tons per year)**

| Pollutant         | Temporary Installation Exemption Levels | Temporary Boiler Emissions |
|-------------------|---|----------------------------|
| PM                | 100.0                                   | 0.27                       |
| PM <sub>10</sub>  | 100.0                                   | 1.10                       |
| PM <sub>2.5</sub> | 100.0                                   | 1.10                       |
| SO <sub>x</sub>   | 100.0                                   | 0.09                       |
| NO <sub>x</sub>   | 100.0                                   | 14.46                      |
| VOC               | 100.0                                   | 0.80                       |
| CO                | 100.0                                   | 12.14                      |
| HAPs              | 100.0                                   | 0.27                       |

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The emission factors used in this analysis were obtained from the Environmental Protection Agency's document AP-42, *Compilation of Air Pollutant Emission Factors*, Fifth Edition, Section 1.4 "Natural Gas Combustion" (July 1998).

If the installation wishes to remain a minor NSR source, VOC emissions from the temporary boiler must be included in the installation's 250.0 ton 12-month rolling total. Failure to include emissions from the temporary boiler could result in the installation becoming a major NSR source. A VOC emission factor of 5.5 lb/MMscf should be used.

You are still obligated to meet all applicable air pollution control rules, Department of Natural Resources' rules, or any other applicable federal, state, or local agency regulations. Specifically, you should avoid violating:

- ◆ 10 CSR 10-6.110 *Reporting Emission Data, Emission Fees, and Process Information*
- ◆ 10 CSR 10-6.165 *Restriction of Emission of Odors*
- ◆ 10 CSR 10-6.170 *Restriction of PM to the Ambient Air Beyond the Premises of Origin*
- ◆ 10 CSR 10-6.220 *Restriction of Emission of Visible Air Contaminants*

A copy of this letter should be kept with the unit and be made available to Department of Natural Resources' personnel upon verbal request. If you have any questions regarding this determination, please do not hesitate to contact Alana Hess at the departments' Air Pollution Control Program, P.O. Box 176, Jefferson City, MO 65102 or by telephone at (573) 751-4817. Thank you for your time and attention to this matter.

Sincerely,

AIR POLLUTION CONTROL PROGRAM



Kyra L. Moore  
Director

KLM:ahj

c: PAMS File: 2016-05-028  
Southwest Regional Office