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Facility Name: **Archer Daniels Midland**

Application Number: **03-3034**

Date: **August 19, 1998**

### **GENERAL PERMIT CONDITIONS**

#### **TERMINATION OF PERMIT TO INSTALL**

Substantial construction for installation must take place within 18 months of the effective date of this permit. This deadline may be extended by up to 12 months if application is made to the Director within a reasonable time before the termination date and the party shows good cause for any such extension.

#### **NOTICE OF INSPECTION**

The Director of the Ohio Environmental Protection Agency, or his authorized representatives, may enter upon the premises of the above-named applicant during construction and operation at any reasonable time for the purpose of making inspections, conducting tests, or to examine records or reports pertaining to the construction, modification or installation of the source(s) of environmental pollutants identified within this permit.

#### **CONSTRUCTION OF NEW SOURCES**

The proposed source(s) shall be constructed in strict accordance with the plans and application submitted for this permit to the Director of the Ohio Environmental Protection Agency. There may be no deviation from the approved plans without the express, written approval of the Agency. Any deviations from the approved plans or the above conditions may lead to such sanctions and penalties as provided under Ohio law. Approval of these plans does not constitute an assurance that the proposed facilities will operate in compliance with all Ohio laws and regulations. Additional facilities shall be installed upon orders of the Ohio Environmental Protection Agency if the proposed sources are inadequate or cannot meet applicable standards.

If the construction of the proposed source(s) has already begun or has been completed prior to the date the Director of the Environmental Protection Agency approves the permit application and plans, the approval does not constitute expressed or implied assurance that the proposed facility has been constructed in accordance with the approved plans. The action of beginning and/or completing construction prior to obtaining the Director's approval constitutes a violation of Ohio Administrative Code (OAC) Rule 3745-31-02. Furthermore, issuance of the Permit to Install does not constitute an assurance that the proposed source will operate in compliance with all Ohio laws and regulations.

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Approval of the plans in any case is not to be construed as an approval of the facility as constructed and/or completed. Moreover, issuance of the Permit to Install is not to be construed as a waiver of any rights that the Ohio Environmental Protection Agency (or other persons) may have against the applicant for starting construction prior to the effective date of the permit. Additional facilities shall be installed upon orders of the Ohio Environmental Protection Agency if the proposed facilities cannot meet applicable standards.

#### **PERMIT TO INSTALL FEE**

In accordance with Ohio Revised Code 3745.11, the specified Permit to Install fee must be remitted within 30 days of the effective date of this permit to install.

#### **PUBLIC DISCLOSURE**

The facility is hereby notified that this permit, and all agency records concerning the operation of this permitted source, are subject to public disclosure in accordance with OAC Rule 3745-49-03.

#### **APPLICABILITY**

This Permit to Install is applicable only to the contaminant sources identified. Separate application must be made to the Director for the installation or modification of any other contaminant sources.

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**BEST AVAILABLE TECHNOLOGY**

As specified in OAC Rule 3745-31-05, all new sources must employ Best Available Technology (BAT). Compliance with the terms and conditions of this permit will fulfill this requirement.

**PERMIT TO OPERATE APPLICATION**

A Permit to Operate application must be submitted to the appropriate field office for each air contaminant source in this Permit to Install. In accordance with OAC Rule 3745-35-02, the application shall be filed no later than thirty days after commencement of operation.

**SOURCE OPERATION AFTER COMPLETION OF CONSTRUCTION**

This facility is permitted to operate each source described by this permit to install for a period of up to one year from the date the source commenced operation. This permission to operate is granted only if the facility complies with all requirements contained in this permit and all applicable air pollution laws and regulations.

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**AIR EMISSION SUMMARY**

The air contaminant emissions units listed below comprise the Permit to Install for **Archer Daniels Midland** located in **Hancock** County. The emissions units listed below shall not exceed the emission limits/control requirements contained in the table. This condition in no way limits the applicability of any other state or federal regulations. Additionally, this condition does not limit the applicability of additional special terms and conditions of this permit.

<u>Ohio EPA Source Number</u>	<u>Source Identification Description</u>	<u>BAT Determination</u>	<u>Applicable Federal &amp; OAC Rules</u>	<u>Permit Allowable Mass Emissions and/or Control/Usage Requirements</u>
P018 (Modification)	Fluid bed drying, conditioning, and dehulling system	Compliance with Permit Allowable Emission Rate	3745-31-05  3745-17-07 (B)(1)  3745-17-11*	3.36 pounds PM <sub>10</sub> /hour;  20 percent opacity as a six-minute average

SUMMARY

TOTAL PERMIT TO INSTALL ALLOWABLE EMISSIONS

<u>Pollutant</u>	<u>Tons/Year</u>
PM <sub>10</sub>	14.72**

\* The limits established in accordance with OAC 3745-31-05 are more stringent than those established by 3745-17-11.

\*\* This modification results in a facility PM<sub>10</sub> increase of 9.90 TPY.

**PERFORMANCE TEST REQUIREMENTS**

The permittee shall conduct, or have conducted, performance testing on the air contaminant source(s) in accordance with procedures approved by the Agency. Two copies of the written

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report describing the test procedures followed and the results of such tests shall be submitted and signed by the person responsible for the test. The Director, or an Ohio EPA representative, shall be allowed to witness the test, examine testing equipment, and require the acquisition or submission of data and information necessary to assure that the source operation and testing procedures provide a valid characterization of the emissions from the source and/or the performance of the control equipment.

- A. A completed Intent to Test form shall be submitted to the appropriate Ohio EPA District Office or Local Air Pollution Control Agency where the original permit application was filed. This notice shall be made 30 days in advance and shall specify the source operating parameters, the proposed test procedures, and the time, date, place and person(s) conducting such tests.
- B. Two copies of the test results shall be submitted within 30 days after the completion of the performance test.
- C. Tests shall be performed for the following source(s) and pollutant(s):

**Source**

**Pollutant(s)**

**P018**

**PM<sub>10</sub>**

**REPORTING REQUIREMENTS**

Unless otherwise specified, reports required by the Permit to Install need only be submitted to **Ohio EPA, Northwest District Office, 347 North Dunbridge Road, Bowling Green, OH 43402.**

**WASTE DISPOSAL**

The owner/operator shall comply with any applicable state and federal requirements governing the storage, treatment, transport and disposal of any waste material generated by the operation of the sources.

**MAINTENANCE OF EQUIPMENT**

This source and its associated air pollution control system(s) shall be maintained regularly in accordance with good engineering practices and the recommendations of the respective manufacturers in order to minimize air contaminant emissions.

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### **MALFUNCTION/ABATEMENT**

In accordance with OAC RULE 3745-15-06, any malfunction of the source(s) or associated air pollution control system(s) shall be reported immediately to the **Ohio EPA, Northwest District Office, 347 North Dunbridge Road, Bowling Green, OH 43402.**

Except as provided by OAC Rule 3745-15-06(A)(3), scheduled maintenance of air pollution control equipment that requires the shutdown or bypassing of air pollution control system(s) must be accompanied by the shutdown of the associated air pollution sources.

### **CONSTRUCTION COMPLIANCE CERTIFICATION**

The applicant shall provide Ohio EPA with a written certification (see enclosed form) that the facility has been constructed in accordance with the Permit to Install application and the terms and conditions of the Permit to Install. The certification shall be provided to Ohio EPA upon completion of construction but prior to startup of the source.

### **ADDITIONAL SPECIAL TERMS AND CONDITIONS**

#### **A. Introduction**

PTI No. 03-3034 serves to modify one existing fluid bed drying, conditioning and dehulling system (emissions units P018) at Archer Daniels Midland Company, which is a major facility for Title V. Emissions unit P018 is currently permitted under PTI No. 03-2310. However, a permit modification has been requested by the company to allow for an increase in production.

PM<sub>10</sub> modeling was not performed because the facility PM<sub>10</sub> emissions increase was less than 10 tons per year.

#### **B. Operational Restrictions**

1. The visible emissions (VEs) from emissions unit P018 shall not exceed 20 percent opacity as a six-minute average, except as provided by rule.
2. The hourly throughput for emissions unit P018 shall not exceed 200,000 pounds.

3. The pressure drop across the cyclone the Escher-Wyss cyclone shall be maintained within the range of 1.5 - 6 inches of water while emissions unit P018 is in operation.

**C. Monitoring/Recordkeeping Requirements**

1. The permittee shall properly install, operate and maintain equipment to monitor the pressure drop across the cyclone while the emissions unit is in operation. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop across the cyclone on a daily basis.

**D. Reporting Requirements**

1. The permittee shall submit quarterly written reports summarizing the following:
  - a. any deviations (excursions) from emission limitations and operational restrictions that have been detected by testing, monitoring, and recordkeeping requirements specified in this permit;
  - b. all periods of time during which the pressure drop across the cyclone did not comply with the allowable range specified in B.3.;
  - c. the probable cause of such deviations; and,
  - d. any corrective actions that or preventive measures that have been or will be taken.

If no deviations occurred during the calendar quarter, the permittee shall submit a quarterly report which states that no deviations occurred during the quarter.

The reports shall be submitted by January 31, April 30, July 31, and October 31 of each year and shall cover the previous calendar quarters (these quarterly reports shall exclude deviations resulting from malfunctions reported in accordance with OAC rule 3745-15-06). All reports shall be submitted to the Ohio EPA, Northwest District Office.

**E. Testing Requirements**

1. Compliance with the organic compound and particulate matter emission limitations outlined in the Air Emissions Summary of this permit shall be determined in accordance with the following method(s):

- a. Emission Limitation

- 3.36 pound  $PM_{10}$  per hour and 14.72 tons of  $PM_{10}$  per year

- Applicable Compliance Method

- OAC rule 3745-17-03(B)(10)

- b. Emission Limitation

- 20 percent opacity, except as provided by rule

- Applicable Compliance Method

- Method 9 of 40 CFR Part 60, Appendix A

2. The permittee shall conduct, or have conducted, emission testing for this emissions unit in accordance with the following requirements:

- a. the emission testing shall be conducted within 6 months after issuance of the permit;
  - b. the emission testing shall be conducted to demonstrate compliance with the mass emission limitation of 3.36 pounds of  $PM_{10}$  per hour and the capture efficiency of 100 percent for  $PM_{10}$ ;
  - c. the following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s): Method 5 (including back half and size distribution) or Method 201 or 201A. Capture efficiency shall be demonstrated by using test methods approved by the Ohio EPA.

- Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA; and,

- d. the test(s) shall be conducted while the emissions unit is operating at its maximum capacity, unless otherwise specified or approved by the Ohio EPA, Northwest District Office.

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Not later than 30 days prior to the proposed test date, the permittee shall submit an "Intent to Test" notification to the Ohio EPA, Northwest District Office. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time and date of the test, and the person who will be conducting the test. Failure to submit such notification for review and approval prior to the test may result in the Ohio EPA, Northwest District Office's refusal to accept the results of the emission test.

Personnel from the Ohio EPA, Northwest District Office shall be permitted to witness the test, examine the testing equipment and acquire data and information necessary to ensure that the operation of the emissions units and the testing procedures provide a valid characterization of the emissions from the emissions units and/or the performance of the control equipment.

A comprehensive written report on the results of the emissions test(s) shall be signed by the person(s) responsible for the tests and submitted to the Ohio EPA, Northwest District Office within 30 days following completion of the test(s).

**F. Miscellaneous Requirements**

1. None.