



Environmental Protection Agency

John R. Kasich, Governor
Mary Taylor, Lt. Governor
Scott J. Nally, Director

2/1/2012

Mr. Chad Strahler
CARGILL INC - BLOOMINGBURG
4201 STATE RTE 238 N E
Bloomingsburg, OH 43106

RE: FINAL AIR POLLUTION PERMIT-TO-INSTALL AND OPERATE

Facility ID: 0124000088
Permit Number: P0108564
Permit Type: OAC Chapter 3745-31 Modification
County: Fayette

Certified Mail

No	TOXIC REVIEW
No	PSD
No	SYNTHETIC MINOR TO AVOID MAJOR NSR
No	CEMS
No	MACT/GACT
Yes	NSPS
No	NESHAPS
No	NETTING
No	MAJOR NON-ATTAINMENT
No	MODELING SUBMITTED
Yes	SYNTHETIC MINOR TO AVOID TITLE V
Yes	FEDERALLY ENFORCABLE PTIO (FEPTIO)
No	SYNTHETIC MINOR TO AVOID MAJOR GHG

Dear Permit Holder:

Enclosed please find a final Air Pollution Permit-to-Install and Operate (PTIO) which will allow you to install, modify, and/or operate the described emissions unit(s) in the manner indicated in the permit. Because this permit contains conditions and restrictions, please read it very carefully. Please complete a survey at www.epa.ohio.gov/dapc/permitsurvey.aspx and give us feedback on your permitting experience. We value your opinion.

The issuance of this PTI is a final action of the Director and may be appealed to the Environmental Review Appeals Commission pursuant to Section 3745.04 of the Ohio Revised Code. The appeal must be in writing and set forth the action complained of and the grounds upon which the appeal is based. The appeal must be filed with the Commission within thirty (30) days after notice of the Director's action. The appeal must be accompanied by a filing fee of \$70.00, made payable to "Ohio Treasurer Josh Mandel," which the Commission, in its discretion, may reduce if by affidavit you demonstrate that payment of the full amount of the fee would cause extreme hardship. Notice of the filing of the appeal shall be filed with the Director within three (3) days of filing with the Commission. Ohio EPA requests that a copy of the appeal be served upon the Ohio Attorney General's Office, Environmental Enforcement Section. An appeal may be filed with the Environmental Review Appeals Commission at the following address:

Environmental Review Appeals Commission
309 South Fourth Street, Room 222
Columbus, OH 43215

If you have any questions, please contact Ohio EPA DAPC, Central District Office at (614)728-3778 or the Office of Compliance Assistance and Pollution Prevention at (614) 644-3469. This permit can be accessed electronically on the DAPC Web page, www.epa.ohio.gov/dapc, by clicking the "Issued Air Pollution Control Permits" link.

Sincerely,

Michael W. Ahern, Manager
Permit Issuance and Data Management Section, DAPC

Cc: Ohio EPA-CDO



Response to Comments

Facility ID:	0124000088
Facility Name:	CARGILL INC - BLOOMINGBURG
Facility Description:	Crop preparation services for market
Facility Address:	4201 STATE RTE 238 N E BLOOMINGBURG, OH 43106 Fayette County
Permit:	P0108564, Permit-To-Install and Operate - OAC Chapter 3745-31 Modification
A public notice for the draft permit issuance was published in the Ohio EPA Weekly Review and appeared in the The Record Herald on 12/08/2011. The comment period ended on 01/07/2012.	
Hearing date (if held)	
Hearing Public Notice Date (if different from draft public notice)	

The following comments were received during the comment period specified. Ohio EPA reviewed and considered all comments received during the public comment period. By law, Ohio EPA has authority to consider specific issues related to protection of the environment and public health. Often, public concerns fall outside the scope of that authority. For example, concerns about zoning issues are addressed at the local level. Ohio EPA may respond to those concerns in this document by identifying another government agency with more direct authority over the issue.

In an effort to help you review this document, the questions are grouped by topic and organized in a consistent format. PDF copies of the original comments in the format submitted are available upon request.

1. Topic: None

- a. Comment: None
- b. Response: None



FINAL

**Division of Air Pollution Control
Permit-to-Install and Operate
for
CARGILL INC - BLOOMINGBURG**

Facility ID: 0124000088
Permit Number: P0108564
Permit Type: OAC Chapter 3745-31 Modification
Issued: 2/1/2012
Effective: 2/1/2012
Expiration: 9/22/2014



Division of Air Pollution Control
Permit-to-Install and Operate
for
CARGILL INC - BLOOMINGBURG

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Authorization

Facility ID: 0124000088
Application Number(s): A0041843, A0042724
Permit Number: P0108564
Permit Description: Chapter 31 modification to increase synthetic minor operational restrictions and emissions limitations related to grain receiving, grain handling, grain loading, grain drying, storage piles and paved roadways and parking areas.
Permit Type: OAC Chapter 3745-31 Modification
Permit Fee: \$8,700.00
Issue Date: 2/1/2012
Effective Date: 2/1/2012
Expiration Date: 9/22/2014
Permit Evaluation Report (PER) Annual Date: July 1 - June 30, Due Aug 15

This document constitutes issuance to:

CARGILL INC - BLOOMINGBURG
4201 STATE RTE 238 N E
BLOOMINGBURG, OH 43106

of a Permit-to-Install and Operate for the emissions unit(s) identified on the following page.

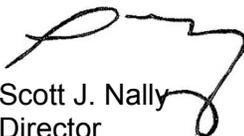
Ohio EPA District Office or local air agency responsible for processing and administering your permit:

Ohio EPA DAPC, Central District Office
50 West Town Street, 6th Floor
P.O. Box 1049
Columbus, OH 43216-1049
(614)728-3778

The above named entity is hereby granted this Permit-to-Install and Operate for the air contaminant source(s) (emissions unit(s)) listed in this section pursuant to Chapter 3745-31 of the Ohio Administrative Code. Issuance of this permit does not constitute expressed or implied approval or agreement that, if constructed or modified in accordance with the plans included in the application, the described emissions unit(s) will operate in compliance with applicable State and federal laws and regulations.

This permit is granted subject to the conditions attached hereto.

Ohio Environmental Protection Agency


Scott J. Nally
Director



Authorization (continued)

Permit Number: P0108564
Permit Description: Chapter 31 modification to increase synthetic minor operational restrictions and emissions limitations related to grain receiving, grain handling, grain loading, grain drying, storage piles and paved roadways and parking areas.

Permits for the following Emissions Unit(s) or groups of Emissions Units are in this document as indicated below:

Emissions Unit ID: F009
Company Equipment ID: Load-out 2-Tr
Superseded Permit Number: P0104588
General Permit Category and Type: Not Applicable

Emissions Unit ID: F011
Company Equipment ID: Grain pile
Superseded Permit Number: P0104588
General Permit Category and Type: Not Applicable

Emissions Unit ID: F013
Company Equipment ID: Roads
Superseded Permit Number: P0104588
General Permit Category and Type: Not Applicable

Emissions Unit ID: F018
Company Equipment ID: Dump Pit #3-RL
Superseded Permit Number:
General Permit Category and Type: Not Applicable

Emissions Unit ID: F020
Company Equipment ID: Handling 1
Superseded Permit Number:
General Permit Category and Type: Not Applicable

Emissions Unit ID: F021
Company Equipment ID: Load-out 3-TR/3-RL
Superseded Permit Number:
General Permit Category and Type: Not Applicable

Group Name: Grain Dryers

Emissions Unit ID:	F008
Company Equipment ID:	Dryer 1
Superseded Permit Number:	P0104588
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	F010
Company Equipment ID:	Dryer 2
Superseded Permit Number:	P0104588
General Permit Category and Type:	Not Applicable

Group Name: Truck Receiving

Emissions Unit ID:	F005
Company Equipment ID:	Dump Pit #1-Tr
Superseded Permit Number:	P0104588
General Permit Category and Type:	Not Applicable

Emissions Unit ID:	F016
Company Equipment ID:	Dump Pit #2-Tr
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	F017
Company Equipment ID:	Dump Pit #3-Tr
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable

A. Standard Terms and Conditions

1. What does this permit-to-install and operate ("PTIO") allow me to do?

This permit allows you to install and operate the emissions unit(s) identified in this PTIO. You must install and operate the unit(s) in accordance with the application you submitted and all the terms and conditions contained in this PTIO, including emission limits and those terms that ensure compliance with the emission limits (for example, operating, recordkeeping and monitoring requirements).

2. Who is responsible for complying with this permit?

The person identified on the "Authorization" page, above, is responsible for complying with this permit until the permit is revoked, terminated, or transferred. "Person" means a person, firm, corporation, association, or partnership. The words "you," "your," or "permittee" refer to the "person" identified on the "Authorization" page above.

The permit applies only to the emissions unit(s) identified in the permit. If you install or modify any other equipment that requires an air permit, you must apply for an additional PTIO(s) for these sources.

3. What records must I keep under this permit?

You must keep all records required by this permit, including monitoring data, test results, strip-chart recordings, calibration data, maintenance records, and any other record required by this permit for five years from the date the record was created. You can keep these records electronically, provided they can be made available to Ohio EPA during an inspection at the facility. Failure to make requested records available to Ohio EPA upon request is a violation of this permit requirement.

4. What are my permit fees and when do I pay them?

There are two fees associated with permitted air contaminant sources in Ohio:

- PTIO fee. This one-time fee is based on a fee schedule in accordance with Ohio Revised Code (ORC) section 3745.11, or based on a time and materials charge for permit application review and permit processing if required by the Director.

You will be sent an invoice for this fee after you receive this PTIO and payment is due within 30 days of the invoice date. You are required to pay the fee for this PTIO even if you do not install or modify your operations as authorized by this permit.

- Annual emissions fee. Ohio EPA will assess a separate fee based on the total annual emissions from your facility. You self-report your emissions in accordance with Ohio Administrative Code (OAC) Chapter 3745-78. This fee assessed is based on a fee schedule in ORC section 3745.11 and funds Ohio EPA's permit compliance oversight activities. Unless otherwise specified, facilities subject to one or more synthetic minor restrictions must use Ohio EPA's "Air Services" to submit annual emissions associated with this permit requirement. Ohio EPA will notify you when it is time to report your emissions and to pay your annual emission fees.

5. When does my PTIO expire, and when do I need to submit my renewal application?

This permit expires on the date identified at the beginning of this permit document (see "Authorization" page above) and you must submit a renewal application to renew the permit. Ohio EPA will send a renewal notice to you approximately six months prior to the expiration date of this permit. However, it is

very important that you submit a complete renewal permit application (postmarked prior to expiration of this permit) even if you do not receive the renewal notice.

If a complete renewal application is submitted before the expiration date, Ohio EPA considers this a timely application for purposes of ORC section 119.06, and you are authorized to continue operating the emissions unit(s) covered by this permit beyond the expiration date of this permit until final action is taken by Ohio EPA on the renewal application.

6. What happens to this permit if my project is delayed or I do not install or modify my source?

This PTIO expires 18 months after the issue date identified on the "Authorization" page above unless otherwise specified if you have not (1) started constructing the new or modified emission sources identified in this permit, or (2) entered into a binding contract to undertake such construction. This deadline can be extended by up to 12 months, provided you apply to Ohio EPA for this extension within a reasonable time before the 18-month period has ended and you can show good cause for any such extension.

7. What reports must I submit under this permit?

An annual permit evaluation report (PER) is required in addition to any malfunction reporting required by OAC rule 3745-15-06 or other specific rule-based reporting requirement identified in this permit. Your PER due date is identified in the Authorization section of this permit.

8. If I am required to obtain a Title V operating permit in the future, what happens to the operating provisions and PER obligations under this permit?

If you are required to obtain a Title V permit under OAC Chapter 3745-77 in the future, the permit-to-operate portion of this permit will be superseded by the issued Title V permit. From the effective date of the Title V permit forward, this PTIO will effectively become a PTI (permit-to-install) in accordance with OAC rule 3745-31-02(B). The following terms and conditions will no longer be applicable after issuance of the Title V permit: Section B, Term 1.b) and Section C, for each emissions unit, Term a)(2).

The PER requirements in this permit remain effective until the date the Title V permit is issued and is effective, and cease to apply after the effective date of the Title V permit. The final PER obligation will cover operations up to the effective date of the Title V permit and must be submitted on or before the submission deadline identified in this permit on the last day prior to the effective date of the Title V permit.

9. What are my obligations when I perform scheduled maintenance on air pollution control equipment?

You must perform scheduled maintenance of air pollution control equipment in accordance with OAC rule 3745-15-06(A). If scheduled maintenance requires shutting down or bypassing any air pollution control equipment, you must also shut down the emissions unit(s) served by the air pollution control equipment during maintenance, unless the conditions of OAC rule 3745-15-06(A)(3) are met. Any emissions that exceed permitted amount(s) under this permit (unless specifically exempted by rule) must be reported as deviations in the annual permit evaluation report (PER), including nonexempt excess emissions that occur during approved scheduled maintenance.

10. Do I have to report malfunctions of emissions units or air pollution control equipment? If so, how must I report?

If you have a reportable malfunction of any emissions unit(s) or any associated air pollution control system, you must report this to the Ohio EPA DAPC, Central District Office in accordance with OAC rule 3745-15-06(B). Malfunctions that must be reported are those that result in emissions that exceed permitted emission levels. It is your responsibility to evaluate control equipment breakdowns and operational upsets to determine if a reportable malfunction has occurred.

If you have a malfunction, but determine that it is not a reportable malfunction under OAC rule 3745-15-06(B), it is recommended that you maintain records associated with control equipment breakdown or process upsets. Although it is not a requirement of this permit, Ohio EPA recommends that you maintain records for non-reportable malfunctions.

11. Can Ohio EPA or my local air agency inspect the facility where the emission unit(s) is/are located?

Yes. Under Ohio law, the Director or his authorized representative may inspect the facility, conduct tests, examine records or reports to determine compliance with air pollution laws and regulations and the terms and conditions of this permit. You must provide, within a reasonable time, any information Ohio EPA requests either verbally or in writing.

12. What happens if one or more emissions units operated under this permit is/are shut down permanently?

Ohio EPA can terminate the permit terms associated with any permanently shut down emissions unit. "Shut down" means the emissions unit has been physically removed from service or has been altered in such a way that it can no longer operate without a subsequent "modification" or "installation" as defined in OAC Chapter 3745-31.

You should notify Ohio EPA of any emissions unit that is permanently shut down by submitting¹ a certification that identifies the date on which the emissions unit was permanently shut down. The certification must be submitted by an authorized official from the facility. You cannot continue to operate an emissions unit once the certification has been submitted to Ohio EPA by the authorized official.

You must comply with all recordkeeping and reporting for any permanently shut down emissions unit in accordance with the provisions of the permit, regulations or laws that were enforceable during the period of operation, such as the requirement to submit a PER, air fee emission report, or malfunction report. You must also keep all records relating to any permanently shutdown emissions unit, generated while the emissions unit was in operation, for at least five years from the date the record was generated.

Again, you cannot resume operation of any emissions unit certified by the authorized official as being permanently shut down without first applying for and obtaining a permit pursuant to OAC Chapter 3745-31.

¹ Permittees that use Ohio EPA's "Air Services" can mark the affected emissions unit(s) as "permanently shutdown" in the facility profile along with the date the emissions unit(s) was permanently removed and/or disabled. Submitting the facility profile update will constitute notifying of the permanent shutdown of the affected emissions unit(s).

13. Can I transfer this permit to a new owner or operator?

You can transfer this permit to a new owner or operator. If you transfer the permit, you must follow the procedures in OAC Chapter 3745-31, including notifying Ohio EPA or the local air agency of the change in ownership or operator. Any transferee of this permit must assume the responsibilities of the transferor permit holder.

14. Does compliance with this permit constitute compliance with OAC rule 3745-15-07, "air pollution nuisance"?

This permit and OAC rule 3745-15-07 prohibit operation of the air contaminant source(s) regulated under this permit in a manner that causes a nuisance. Ohio EPA can require additional controls or modification of the requirements of this permit through enforcement orders or judicial enforcement action if, upon investigation, Ohio EPA determines existing operations are causing a nuisance.

15. What happens if a portion of this permit is determined to be invalid?

If a portion of this permit is determined to be invalid, the remainder of the terms and conditions remain valid and enforceable. The exception is where the enforceability of terms and conditions are dependent on the term or condition that was declared invalid.

B. Facility-Wide Terms and Conditions

1. This permit document constitutes a permit-to-install issued in accordance with ORC 3704.03(F) and a permit-to-operate issued in accordance with ORC 3704.03(G).
 - a) For the purpose of a permit-to-install document, the facility-wide terms and conditions identified below are federally enforceable with the exception of those listed below which are enforceable under state law only.
 - (1) None.
 - b) For the purpose of a permit-to-operate document, the facility-wide terms and conditions identified below are enforceable under state law only with the exception of those listed below which are federally enforceable.
 - (1) None.

C. Emissions Unit Terms and Conditions

1. F009, Load-out 2-Tr

Operations, Property and/or Equipment Description:

Grain shipping and load-out, truck loading

- a) This permit document constitutes a permit-to-install issued in accordance with ORC 3704.03(F) and a permit-to-operate issued in accordance with ORC 3704.03(G).
 - (1) For the purpose of a permit-to-install document, the emissions unit terms and conditions identified below are federally enforceable with the exception of those listed below which are enforceable under state law only.
 - a. None.
 - (2) For the purpose of a permit-to-operate document, the emissions unit terms and conditions identified below are enforceable under state law only with the exception of those listed below which are federally enforceable.
 - a. b)(1)a., c)(1), d)(1), e)(2).
- b) Applicable Emissions Limitations and/or Control Requirements
 - (1) The specific operation(s), property, and/or equipment that constitute each emissions unit along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures are identified below. Emissions from each unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-31-05(D) (Synthetic minor to avoid PSD) (Synthetic minor to avoid Title V) ORC 3704.03(T)	Fugitive particulate emissions (PE) from truck load-out operations for emissions units F009 and F021 combined shall not exceed 30.10 tons per rolling, 12-month period. Fugitive emissions of particulate matter less than ten microns in diameter (PM ₁₀) from truck load-out operations for emissions units F009 and F021 combined shall not exceed 10.15 tons per rolling, 12-month period. See c)(1)
b.	OAC rule 3745-17-07(B)	See b)(2)a.
c.	OAC rule 3745-17-08(A)(1)	See b)(2)b.
d.	40 CFR Part 60, Subpart DD ORC 3704.03(T)	Visible emissions of fugitive dust from truck load-out operations shall not exceed 10 percent opacity.

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
e.	40 CFR Part 60, Subpart A	See b)(2)c.

(2) Additional Terms and Conditions

- a. This emissions unit is exempt from the visible particulate fugitive dust emission limitations specified in OAC rule 3745-17-07(B) pursuant to OAC rule 3745-17-07(B)(11)(e).
- b. This emissions unit is not located within areas identified in "Appendix A" of OAC rule 3745-17-08, therefore, the requirements of OAC rule 3745-17-08(B), which requires the installation of reasonably available control measures to prevent fugitive dust, do not apply to this emissions unit pursuant to OAC rule 3745-17-08(A)(1).
- c. The permittee shall demonstrate compliance with the applicable limitations identified in 40 CFR Part 60, Subpart DD in accordance with the General Provisions of the Standards of Performance for New Stationary Sources, 40 CFR Part 60, Subpart A (60.1-60.19).

c) Operational Restrictions

- (1) The maximum, combined grain loaded-out to truck for emissions units F009 and F021 shall not exceed 25,000,000 bushels (700,000 tons) per rolling, 12-month period.

The permittee has existing records of the grain throughput for this emissions unit; therefore, the first year of accumulating monthly grain throughput limitations is not necessary.

d) Monitoring and/or Recordkeeping Requirements

- (1) The permittee shall maintain monthly records of the following information:
- a. the grain loaded-out to truck for emissions unit F009, in bushels;
 - b. the grain loaded-out to truck for emissions unit F021, in bushels;
 - c. the combined, rolling, 12-month summation of grain loaded-out to truck for emissions units F009 and F021, in bushels;
 - d. the combined, rolling, 12-month summation of grain loaded-out to truck for emissions units F009 and F021, in tons [the product of d)(1)c. and the conversion factor of 0.028 tons per bushel];
 - e. the combined, rolling, 12-month PE from grain loaded-out to truck for emissions units F009 and F021, in tons, calculated in accordance with f)(1)a.; and
 - f. the combined, rolling, 12-month PM₁₀ emissions from grain loaded-out to truck for emissions units F009 and F021, in tons, calculated in accordance with f)(1)b.

- (2) The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any fugitive particulate emissions from the egress points (i.e., building windows, doors, roof monitors, etc.) serving the loadout operations associated with this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
- a. the location and color of the emissions;
 - b. whether the emissions are representative of normal operations;
 - c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
 - d. the total duration of any visible emission incident; and
 - e. any corrective actions taken to minimize or eliminate the visible emissions.
- (3) If visible emissions are present, a visible emission incident has occurred. The observer does not have to document the exact start and end times for the visible emission incident under item (d) above or continue the daily check until the incident has ended. The observer may indicate that the visible emission incident was continuous during the observation period (or, if known, continuous during the operation of the emissions unit). With respect to the documentation of corrective actions, the observer may indicate that no corrective actions were taken if the visible emissions were representative of normal operations, or specify the minor corrective actions that were taken to ensure that the emissions unit continued to operate under normal conditions, or specify the corrective actions that were taken to eliminate abnormal visible emissions.

e) Reporting Requirements

- (1) Unless other arrangements have been approved by the Director, all notifications and reports shall be submitted through the Ohio EPA's eBusiness Center: Air Services online web portal.
- (2) The permittee shall submit quarterly deviation (excursion) reports that identify:
- a. all deviations (excursions) of the following emission limitations, operational restrictions and/or control device operating parameter limitations that restrict the potential to emit (PTE) of any regulated air pollutant and have been detected by the monitoring, record keeping and/or testing requirements in this permit:
 - i. each rolling, 12-month period when the combined limitation for grain loaded-out to trucks for emissions unit F009 and F021 of 25,000,000 bushels was exceeded;
 - ii. each rolling, 12-month period when the combined PE limitation of 30.10tons from truck load-out operations for emissions units F009 and F021 was exceeded; and

- iii. each rolling, 12-month period when the combined PM₁₀ emissions limitation of 10.15 tons from truck load-out operations for emissions units F009 and F021 was exceeded.
- b. the probable cause of each deviation (excursion);
- c. any corrective actions that were taken to remedy the deviations (excursions) or prevent future deviations (excursions); and
- d. the magnitude and duration of each deviation (excursion).

If no deviations (excursions) occurred during a calendar quarter, the permittee shall submit a report that states that no deviations (excursions) occurred during the quarter.

The quarterly reports shall be submitted electronically through Ohio EPA Air Services, each year by January 31 (covering October to December), April 30 (covering January to March), July 31 (covering April to June), and October 31 (covering July to September), unless an alternative schedule has been established and approved by the Director (the Central District Office).

- (3) Annual Permit Evaluation Report (PER) forms will be mailed to the permittee at the end of the reporting period specified in the Authorization section of this permit. The permittee shall submit the PER in the form and manner provided by the director by the due date identified in the Authorization section of this permit. The permit evaluation report shall cover a reporting period of no more than twelve-months for each air contaminant source identified in this permit.

f) Testing Requirements

- (1) Compliance with the Emissions Limitations and/or Control Requirements specified in section b) of these terms and conditions shall be determined in accordance with the following methods:

- a. Emissions Limitation:

Fugitive PE from truck load-out operations for emissions units F009 and F021 combined shall not exceed 30.10 tons per rolling, 12-month period.

Applicable Compliance Method:

Compliance shall be demonstrated by the record keeping requirements identified in d)(1) and the following calculations:

$$\text{Fugitive PE} = \text{tons grain throughput} * E_f$$

where,

tons grain throughput = combined grain loaded-out to trucks for emissions units F009 and F021

E_f = AP-42[#] emissions factor (0.086 lb PE/ton grain)

- AP-42, Volume I, Fifth Edition, Section 9.9, "Grain Processing", Table 9.9.1-1, March 2003.

b. Emissions Limitation:

Fugitive PM₁₀ emissions from truck load-out operations for emissions units F009 and F021 combined shall not exceed 10.15 tons per rolling, 12-month period.

Applicable Compliance Method:

Compliance shall be demonstrated by the record keeping requirements identified in d)(1) and the following calculations:

$$\text{Fugitive PM}_{10} = \text{tons grain throughput} * E_f$$

where,

tons grain throughput = combined grain loaded-out to trucks for emissions units F009 and F021

$$E_f = \text{AP-42}^\# \text{ emissions factor (0.029 lb PM}_{10}\text{/ton grain)}$$

- AP-42, Volume I, Fifth Edition, Section 9.9, "Grain Processing", Table 9.9.1-1, May 2003.

c. Emissions Limitation:

Visible emissions of fugitive dust from truck load-out operations shall not exceed 10 percent opacity.

Applicable Compliance Method:

If required, compliance with the visible emission limitation for the fugitive dust from truck load-out operations shall be determined through visible emission observations performed in accordance with U.S. EPA Method 9.

g) Miscellaneous Requirements

(1) None.

2. F011, Grain pile

Operations, Property and/or Equipment Description:

Storage piles, including load-in, load-out and wind erosion

- a) This permit document constitutes a permit-to-install issued in accordance with ORC 3704.03(F) and a permit-to-operate issued in accordance with ORC 3704.03(G).
 - (1) For the purpose of a permit-to-install document, the emissions unit terms and conditions identified below are federally enforceable with the exception of those listed below which are enforceable under state law only.
 - a. None.
 - (2) For the purpose of a permit-to-operate document, the emissions unit terms and conditions identified below are enforceable under state law only with the exception of those listed below which are federally enforceable.
 - a. b)(1)c., c)(1), d)(1), and e)(2)
- b) Applicable Emissions Limitations and/or Control Requirements
 - (1) The specific operation(s), property, and/or equipment that constitute each emissions unit along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures are identified below. Emissions from each unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-31-05(A)(3), as effective 11/30/01	There shall be no visible particulate emissions (PE) from this emissions unit except for one minute during any sixty minute period. See b)(2)a.
b.	OAC rule 3745-31-05(A)(3)(a)(ii), as effective 12/01/06	See b)(2)b.
c.	OAC rule 3745-31-05(D) (Synthetic minor to avoid PSD) (Synthetic minor to avoid Title V)	PE shall not exceed 8.10 tons per rolling, 12-month period. PM ₁₀ emissions shall not exceed 5.84 tons per rolling, 12-month period. See c)(1).
d.	OAC rule 3745-17-07(B)	See b)(2)c.
e.	OAC rule 3745-17-08(A)(1)	See b)(2)d.

(2) Additional Terms and Conditions

- a. The permittee has satisfied the Best Available Technology (BAT) requirements pursuant to OAC rule 3745-31-05(A)(3), as effective November 30, 2001, in this permit. On December 1, 2006, paragraph (A)(3) of OAC rule 3745-31-05 was revised to conform to ORC changes effective August 3, 2006 (Senate Bill 265 changes), such that BAT is no longer required by State regulations for emissions units that have the potential to emit less than ten tons per year for pollutants to which National Ambient Air Quality Standards (NAAQS) apply. However, that rule revision has not yet been approved by U.S. EPA as a revision to Ohio's State Implementation Plan (SIP). Until the SIP revision occurs and U.S. EPA approves the revisions to OAC rule 3745-31-05, the requirement to satisfy BAT still exists as part of the federally-approved SIP for Ohio. When U.S. EPA approves the December 1, 2006, version of OAC rule 3745-31-05, these emissions limitations/control measures will no longer apply.
- b. The following rule paragraphs will apply when U.S. EPA approves the December 1, 2006, version of OAC rule 3745-31-05 as part of the SIP:
 - i. The BAT requirements under OAC rule 3745-31-05(A)(3) do not apply to the PE from this air contaminant source because the calculated annual emission rate for PE is less than 10 tons/year, taking into consideration the federally enforceable rule limit of 8.10 tons per rolling, 12-month period under OAC rule 3745-31-05(D). See c)(1); and
 - ii. The BAT requirements under OAC rule 3745-31-05(A)(3) do not apply to the emissions of particulate matter less than ten microns in diameter (PM₁₀) from this air contaminant source because the calculated annual emission rate for PM₁₀ is less than 10 tons/year, taking into consideration the federally enforceable rule limit of 5.84 tons per rolling, 12-month period under OAC rule 3745-31-05(D). See c)(1).
- c. This emissions unit is exempt from the visible particulate fugitive dust emission limitations specified in OAC rule 3745-17-07(B) pursuant to OAC rule 3745-17-07(B)(11)(e).
- d. This emissions unit is not located within areas identified in "Appendix A" of OAC rule 3745-17-08, therefore, the requirements of OAC rule 3745-17-08(B), which requires the installation of reasonably available control measures to prevent fugitive dust, do not apply to this emissions unit pursuant to OAC rule 3745-17-08(A)(1).

c) Operational Restrictions

- (1) The maximum grain throughput for this emissions unit shall not exceed 75,000,000 bushels (2,100,000 tons) per rolling, 12-month period.

The permittee has existing records of the grain throughput for this emissions unit; therefore, the first year of accumulating monthly grain throughput limitations is not necessary.

d) Monitoring and/or Recordkeeping Requirements

- (1) The permittee shall maintain monthly records of the following information:
 - a. the grain throughput, in bushels;
 - b. the rolling, 12-month summation of the grain throughput, in bushels;
 - c. the rolling, 12-month PE, in tons, calculated in accordance with f)(1)b.; and
 - d. the rolling, 12-month PM₁₀ emissions, in tons, calculated in accordance with f)(1)c.
- (2) The permittee shall maintain daily records that indicate whether the storage pile was or was not covered for the purpose of calculating emissions from wind erosion across the storage pile.

e) Reporting Requirements

- (1) Unless other arrangements have been approved by the Director, all notifications and reports shall be submitted through the Ohio EPA's eBusiness Center: Air Services online web portal.
- (2) The permittee shall submit quarterly deviation (excursion) reports that identify:
 - a. all deviations (excursions) of the following emission limitations, operational restrictions and/or control device operating parameter limitations that restrict the potential to emit (PTE) of any regulated air pollutant and have been detected by the monitoring, record keeping and/or testing requirements in this permit:
 - i. each rolling, 12-month period when the grain throughput limitation of 75,000,000 bushels was exceeded;
 - ii. each rolling, 12-month period when the PE limitation of 8.10tons was exceeded; and
 - iii. each rolling, 12-month period when the PM₁₀ emissions limitation of 5.84tons was exceeded.
 - b. the probable cause of each deviation (excursion);
 - c. any corrective actions that were taken to remedy the deviations (excursions) or prevent future deviations (excursions); and
 - d. the magnitude and duration of each deviation (excursion).

If no deviations (excursions) occurred during a calendar quarter, the permittee shall submit a report that states that no deviations (excursions) occurred during the quarter.

The quarterly reports shall be submitted,electronically through Ohio EPA Air Services, each year by January 31 (covering October to December), April 30 (covering January to March), July 31 (covering April to June), and October 31 (covering July to September),

unless an alternative schedule has been established and approved by the Director (the appropriate District Office or local air agency).

- (3) Annual Permit Evaluation Report (PER) forms will be mailed to the permittee at the end of the reporting period specified in the Authorization section of this permit. The permittee shall submit the PER in the form and manner provided by the director by the due date identified in the Authorization section of this permit. The permit evaluation report shall cover a reporting period of no more than twelve-months for each air contaminant source identified in this permit.

f) Testing Requirements

- (1) Compliance with the Emissions Limitations and/or Control Requirements specified in section b) of these terms and conditions shall be determined in accordance with the following methods:

a. Emissions Limitation:

There shall be no visible PE from this emissions unit except for one minute during any sixty minute period (as applicable prior to U.S. EPA approving the December 1, 2006, version of OAC rule 3745-31-05 as part of the SIP).

Applicable Compliance Method:

If required, compliance with the visible PE limitations for the storage piles identified above shall be determined in accordance with U.S. EPA Method 22 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources").

b. Emissions Limitation:

PE shall not exceed 8.10 tons per rolling, 12-month period.

Applicable Compliance Method:

Compliance with this limitation may be determined through the recordkeeping required in d)(1) and d)(2) and the following calculations:

Load-in:

$PE = (\text{Grain throughput} * CF * EF) / 2000$; where,

PE = Actual particulate emissions, in tons per rolling, 12-month period

CF = Conversion factor from bushels to tons (0.028 ton per bushel)

EF = AP-42 emissions factor (0.00205 lb PE/ton) (AP-42, Volume I, Fifth Edition, Section 13.2.4, "Aggregate Handling and Storage Piles", November 2006)

Load-out:

$PE = (\text{Grain throughput} * CF * EF) / 2000$; where,

PE = Actual particulate emissions, in tons per rolling, 12-month period

CF = Conversion factor from bushels to tons (0.028 ton per bushel)

EF = AP-42 emissions factor (0.00205 lb PE/ton) (AP-42, Volume I, Fifth Edition, Section 13.2.4, "Aggregate Handling and Storage Piles", November 2006)

Wind erosion:

PE = (SA * days of use * EF)/2000; where,

PE = Actual particulate emissions, in tons per rolling, 12-month period

SA = Surface area, in acres (2)

EF = 10.42 lbs PM₁₀/day/acre (EPA-450-2/92-004, Fugitive Dust Background Document and Technical Information Document for Best Available Control Measures, September 1992)

For the purpose of determining emissions from wind erosion across the storage pile, 'days of use' shall only include those days when the storage pile was not covered as determined by recordkeeping requirement d)(3).

c. Emissions Limitation:

PM₁₀ emissions shall not exceed 5.84 tons per rolling, 12-month period.

Applicable Compliance Method:

Compliance with this limitation may be determined through the recordkeeping required in d)(1) and d)(2) and the following calculations:

Load-in:

PM₁₀ = (Grain throughput * CF * EF)/2000; where,

PM₁₀ = Actual PM₁₀ emissions, in tons per rolling, 12-month period

CF = Conversion factor from bushels to tons (0.028 ton per bushel)

EF = AP-42 emissions factor (0.000969 lb PM₁₀/ton) (AP-42, Volume I, Fifth Edition, Section 13.2.4, "Aggregate Handling and Storage Piles", November 2006)

Load-out:

PM₁₀ = (Grain throughput * CF * EF)/2000; where,

PM₁₀ = Actual PM₁₀ emissions, in tons per rolling, 12-month period

CF = Conversion factor from bushels to tons (0.028 ton per bushel)

EF = AP-42 emissions factor (0.000969 lb PM₁₀/ton) (AP-42, Volume I, Fifth Edition, Section 13.2.4, "Aggregate Handling and Storage Piles", November 2006)

Wind erosion:

PM₁₀ = (SA * days of use * EF)/2000; where,

PM₁₀ = Actual PM₁₀ emissions, in tons per rolling, 12-month period

SA = Surface area, in acres (2)

EF = 10.42 lbs PM₁₀/day/acre (EPA-450-2/92-004, Fugitive Dust Background Document and Technical Information Document for Best Available Control Measures, September 1992)

For the purpose of determining emissions from wind erosion across the storage pile, 'days of use' shall only include those days when the storage pile was not covered as determined by recordkeeping requirement d)(3).

g) Miscellaneous Requirements

- (1) None.

3. F013, Roads

Operations, Property and/or Equipment Description:

Paved roadways and parking areas

- a) This permit document constitutes a permit-to-install issued in accordance with ORC 3704.03(F) and a permit-to-operate issued in accordance with ORC 3704.03(G).
 - (1) For the purpose of a permit-to-install document, the emissions unit terms and conditions identified below are federally enforceable with the exception of those listed below which are enforceable under state law only.
 - a. None.
 - (2) For the purpose of a permit-to-operate document, the emissions unit terms and conditions identified below are enforceable under state law only with the exception of those listed below which are federally enforceable.
 - a. b)(1)c., d)(1), and e)(2)
- b) Applicable Emissions Limitations and/or Control Requirements
 - (1) The specific operation(s), property, and/or equipment that constitute each emissions unit along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures are identified below. Emissions from each unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-31-05(A)(3), as effective 11/30/01	There shall be no visible PE from this emissions unit except for one minute during any sixty minute period. The permittee shall treat the paved roadways and parking areas with water at sufficient frequencies to prevent visible emissions of fugitive dust. See b)(2)a.
b.	OAC rule 3745-31-05(A)(3)(a)(ii), as effective 12/01/06	See b)(2)b.
c.	OAC rule 3745-31-05(D) (Synthetic minor to avoid PSD) (Synthetic minor to avoid Title V)	Particulate emissions (PE) shall not exceed 5.88 tons per rolling, 12-month period. Emissions of particulate matter less than ten microns in diameter (PM ₁₀) shall not exceed 1.18 tons per rolling, 12-month period.

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
		See b)(2)c.
d.	OAC rule 3745-17-07(B)	See b)(2)d.
e.	OAC rule 3745-17-08(A)(1)	See b)(2)e.

(2) Additional Terms and Conditions

- a. The permittee has satisfied the Best Available Technology (BAT) requirements pursuant to OAC rule 3745-31-05(A)(3), as effective November 30, 2001, in this permit. On December 1, 2006, paragraph (A)(3) of OAC rule 3745-31-05 was revised to conform to ORC changes effective August 3, 2006 (Senate Bill 265 changes), such that BAT is no longer required by State regulations for emissions units that have the potential to emit less than ten tons per year for pollutants to which National Ambient Air Quality Standards (NAAQS) apply. However, that rule revision has not yet been approved by U.S. EPA as a revision to Ohio's State Implementation Plan (SIP). Until the SIP revision occurs and U.S. EPA approves the revisions to OAC rule 3745-31-05, the requirement to satisfy BAT still exists as part of the federally-approved SIP for Ohio. When U.S. EPA approves the December 1, 2006, version of OAC rule 3745-31-05, these emissions limitations/control measures will no longer apply.
- b. The following rule paragraphs will apply when U.S. EPA approves the December 1, 2006, version of OAC rule 3745-31-05 as part of the SIP:
 - i. The BAT requirements under OAC rule 3745-31-05(A)(3) do not apply to the PE from this air contaminant source because the calculated annual emission rate for PE is less than 10 tons/year, taking into consideration the federally enforceable rule limit of 5.88 tons per rolling, 12-month period under OAC rule 3745-31-05(D); and
 - ii. The BAT requirements under OAC rule 3745-31-05(A)(3) do not apply to the PM₁₀ emissions from this air contaminant source because the calculated annual emission rate for PM₁₀ is less than 10 tons/year, taking into consideration the federally enforceable rule limit of 1.18 tons per rolling, 12-month period under OAC rule 3745-31-05(D).
- c. The rolling, 12-month PE and PM₁₀ emissions limitations were established to reflect the potential to emit taking into consideration the synthetic minor operational restrictions established for emissions units F005, F016, F017, F009 and F021. The monitoring, recordkeeping, reporting, and testing requirements, established in the following terms and conditions in conjunction with the requirements established for emissions units F005, F016, F017, F009 and F021 are sufficient to demonstrate compliance with these limitations.
- d. This emissions unit is exempt from the visible particulate fugitive dust emission limitations specified in OAC rule 3745-17-07(B) pursuant to OAC rule 3745-17-07(B)(11)(e).

e. This emissions unit is not located within areas identified in "Appendix A" of OAC rule 3745-17-08, therefore, the requirements of OAC rule 3745-17-08(B), which requires the installation of reasonably available control measures to prevent fugitive dust, do not apply to this emissions unit pursuant to OAC rule 3745-17-08(A)(1).

c) Operational Restrictions

(1) None.

d) Monitoring and/or Recordkeeping Requirements

(1) The permittee shall maintain monthly records of the following information:

- a. the number of truck shipments received at emissions units F005, F016, and F017;
- b. the number of trucks loaded out at emissions unit F009 and F021;
- c. the rolling, 12-month summation of truck shipments received at emissions units F005, F016, and F017;
- d. the rolling, 12-month summation of trucks loaded out at emissions unit F009 and F021;
- e. the rolling, 12-month PE, in tons, calculated in accordance with f)(1)b.; and
- f. the rolling, 12-month PM₁₀ emissions, in tons, calculated in accordance with f)(1)c.

(2) Except as otherwise provided in this section, the permittee shall perform inspections of each of the roadway segments and parking areas in accordance with the following frequencies(as applicable prior to U.S. EPA approving the December 1, 2006, version of OAC rule 3745-31-05 as part of the SIP):

<u>paved roadways and parking areas</u>	<u>minimum inspection frequency</u>
all roads and parking areas	daily

(3) The purpose of the inspections is to determine the need for implementing the control measures identified in b)(2)a. The inspections shall be performed during representative, normal traffic conditions. No inspection shall be necessary for a roadway or parking area that is covered with snow and/or ice or if precipitation has occurred that is sufficient for that day to ensure compliance with the above-mentioned applicable requirements. Any required inspection that is not performed due to any of the above-identified events shall be performed as soon as such event(s) has (have) ended, except if the next required inspection is within one week.

- (4) The permittee shall maintain records of the following information(as applicable prior to U.S. EPA approving the December 1, 2006, version of OAC rule 3745-31-05 as part of the SIP):
- a. the date and reason any required inspection was not performed, including those inspections that were not performed due to snow and/or ice cover or precipitation;
 - b. the date of each inspection where it was determined by the permittee that it was necessary to implement the control measures;
 - c. the dates the control measures were implemented; and
 - d. on a calendar year basis, the total number of days the control measures were implemented and the total number of days where snow and/or ice cover or precipitation were sufficient to not require the control measures.

e) Reporting Requirements

- (1) Unless other arrangements have been approved by the Director, all notifications and reports shall be submitted through the Ohio EPA's eBusiness Center: Air Services online web portal.
- (2) The permittee shall submit quarterly deviation (excursion) reports that identify:
- a. all deviations (excursions) of the following emission limitations, operational restrictions and/or control device operating parameter limitations that restrict the potential to emit (PTE) of any regulated air pollutant and have been detected by the monitoring, record keeping and/or testing requirements in this permit:
 - i. each rolling, 12-month period when the PE limitation of 5.88tons was exceeded; and
 - ii. each rolling, 12-month period when the PM₁₀ emissions limitation of 1.18tons was exceeded.
 - b. the probable cause of each deviation (excursion);
 - c. any corrective actions that were taken to remedy the deviations (excursions) or prevent future deviations (excursions); and
 - d. the magnitude and duration of each deviation (excursion).

If no deviations (excursions) occurred during a calendar quarter, the permittee shall submit a report that states that no deviations (excursions) occurred during the quarter.

The quarterly reports shall be submitted,electronically through Ohio EPA Air Services, each year by January 31 (covering October to December), April 30 (covering January to March), July 31 (covering April to June), and October 31 (covering July to September), unless an alternative schedule has been established and approved by the Director (the appropriate District Office or local air agency).

- (3) Annual Permit Evaluation Report (PER) forms will be mailed to the permittee at the end of the reporting period specified in the Authorization section of this permit. The permittee shall submit the PER in the form and manner provided by the director by the due date identified in the Authorization section of this permit. The permit evaluation report shall cover a reporting period of no more than twelve-months for each air contaminant source identified in this permit.

f) Testing Requirements

- (1) Compliance with the Emissions Limitations and/or Control Requirements specified in section b) of these terms and conditions shall be determined in accordance with the following methods:

a. Emissions Limitation:

There shall be no visible PE from this emissions unit except for one minute during any sixty minute period (as applicable prior to U.S. EPA approving the December 1, 2006, version of OAC rule 3745-31-05 as part of the SIP).

Applicable Compliance Method:

Compliance with the visible emission limitation for the fugitive dust from paved roadways and parking areas shall be based upon the record keeping requirements specified in d)(2) through d)(4). If required, compliance shall be determined in accordance with U.S. EPA Method 22 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources").

b. Emissions Limitation:

PE shall not exceed 5.88 tons per rolling, 12-month period.

Applicable Compliance Method:

Compliance with this limitation may be determined through the record keeping requirements identified in d)(1) and the following equations provided in Section 13.2.1, in Compilation of Air Pollutant Emission Factors, AP-42, Fifth Edition, Volume 1 (revised 1/2011):

$$E = [k(sL)^{0.91}(W)^{1.02}]; \text{ where,}$$

E= size-specific emissions factor [lb PE/vehicle mile traveled (VMT)]

k= particle size multiplier (0.011)

sL= silt content of road surface material (0.40 g/m²)

W = mean vehicle weight (27 tons)

Rolling, 12-month particulate emissions are determined by multiplying the size-specific emissions factor determined above (0.14 lb PE/ VMT) by the actual VMT. In accordance with the information provided in the permit application, VMT is 0.75 miles per truck.

c. Emissions Limitation:

PM₁₀ emissions shall not exceed 1.18 TPY (as applicable prior to U.S. EPA approving the December 1, 2006, version of OAC rule 3745-31-05 as part of the SIP).

Applicable Compliance Method:

Compliance with this limitation may be determined through the record keeping requirements identified in d)(1) and the following equations provided in Section 13.2.1, in Compilation of Air Pollutant Emission Factors, AP-42, Fifth Edition, Volume 1 (revised 1/2011):

$$E = [k(sL)^{0.91}(W)^{1.02}]; \text{ where,}$$

E= size-specific emissions factor [lb PM₁₀/vehicle mile traveled (VMT)]

k= particle size multiplier (0.0022)

sL= silt content of road surface material (0.40 g/m²)

W = mean vehicle weight (27 tons)

Rolling, 12-month PM₁₀ emissions are determined by multiplying the size-specific emissions factor determined above (0.028 lb PM₁₀/ VMT) by the actual VMT. In accordance with the information provided in the permit application, VMT is 0.75 miles per truck.

g) Miscellaneous Requirements

(1) None.

4. F018, Dump Pit #3-RL

Operations, Property and/or Equipment Description:

Grain receiving by rail, dump pit #3 (FKA F005)

- a) This permit document constitutes a permit-to-install issued in accordance with ORC 3704.03(F) and a permit-to-operate issued in accordance with ORC 3704.03(G).
 - (1) For the purpose of a permit-to-install document, the emissions unit terms and conditions identified below are federally enforceable with the exception of those listed below which are enforceable under state law only.
 - a. None.
 - (2) For the purpose of a permit-to-operate document, the emissions unit terms and conditions identified below are enforceable under state law only with the exception of those listed below which are federally enforceable.
 - a. b)(1)c., b)(2)f., c)(1), d)(1), and e)(2)
- b) Applicable Emissions Limitations and/or Control Requirements
 - (1) The specific operation(s), property, and/or equipment that constitute each emissions unit along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures are identified below. Emissions from each unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-31-05(A)(3), as effective 11/30/01	Stack and fugitive particulate emissions (PE) shall not exceed 4.39pounds per hour (lbs/hr). Stack and fugitiveemissions of particulate matter less than ten microns in diameter (PM ₁₀) shall not exceed 1.68lb/hr. See b)(2)a. and b)(2)c.
b.	OAC rule 3745-31-05(A)(3)(a)(ii), as effective 12/01/06	See b)(2)b.
c.	OAC rule 3745-31-05(D) (Synthetic minor to avoid PSD) (Synthetic minor to avoid Title V)	PE from the stackof the baghouse serving this emissions unit shall not exceed 0.005 grains per dry standard cubic feet (gr/dscf). Stack and fugitive PEfrom emissions units F018 and F019 combined shall not exceed 13.85 tons per rolling, 12-month period.

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
		<p>Stack and fugitive PM₁₀ emissions from emissions units F018 and F019 combined shall not exceed 6.06 tons per rolling, 12-month period.</p> <p>See b)(2)f.</p>
d.	OAC rule 3745-17-07(A)(1)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to 40 CFR Part 60 Subpart DD.
e.	OAC rule 3745-17-07(B)	See b)(2)d.
f.	OAC rule 3745-17-08(A)(1)	See b)(2)e.
g.	OAC rule 3745-17-11(B)(3)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(D).
h.	40 CFR Part 60, Subpart DD	<p>The grain loading limitation specified by this rule is less stringent than the grain loading limitation established pursuant to OAC rule 3745-31-05(D).</p> <p>Visible emissions from the stack(s) of each baghouse serving this emission unit shall not exceed 0 percent opacity.</p> <p>Visible emissions of fugitive dust from receiving operations associated with this emissions unit shall not exceed 5 percent opacity.</p>
i.	40 CFR Part 60, Subpart A	See b)(2)g.

(2) Additional Terms and Conditions

- a. The permittee has satisfied the Best Available Technology (BAT) requirements pursuant to OAC rule 3745-31-05(A)(3), as effective November 30, 2001, in this permit. On December 1, 2006, paragraph (A)(3) of OAC rule 3745-31-05 was revised to conform to ORC changes effective August 3, 2006 (Senate Bill 265 changes), such that BAT is no longer required by State regulations for emissions units that have the potential to emit less than ten tons per year for pollutants to which National Ambient Air Quality Standards (NAAQS) apply. However, that rule revision has not yet been approved by U.S. EPA as a revision to Ohio's State Implementation Plan (SIP). Until the SIP revision occurs and U.S. EPA approves the revisions to OAC rule 3745-31-05, the requirement to satisfy BAT still exists as part of the federally-approved SIP for Ohio. When U.S. EPA approves the December 1, 2006, version of OAC rule 3745-31-05, these emissions limitations/control measures will no longer apply.

- b. The following rule paragraphs will apply when U.S. EPA approves the December 1, 2006, version of OAC rule 3745-31-05 as part of the SIP:
 - i. The BAT requirements under OAC rule 3745-31-05(A)(3) do not apply to the PE and PM₁₀ emissions from this air contaminant source because the calculated annual emission rate for PE and PM₁₀ is less than 10 tons/year, taking into consideration the combined synthetic minor limitation of 75,000,000 bushels per rolling, 12-month period established for emissions units F018 and F019 and the synthetic minor limitation of 10,000,000 bushels per rolling, 12-month period established for emissions units F019.
- c. The hourly PE and PM₁₀ emissions limitations were established to reflect the potential to emit for this emissions unit taking into consideration the synthetic minor operational restrictions established for emissions units F018 and F019. The monitoring, recordkeeping, reporting, and testing requirements, established in the following terms and conditions are sufficient to demonstrate compliance with these limitations.
- d. This emissions unit is exempt from the visible particulate fugitive dust emission limitations specified in OAC rule 3745-17-07(B) pursuant to OAC rule 3745-17-07(B)(11)(e).
- e. This emissions unit is not located within areas identified in "Appendix A" of OAC rule 3745-17-08, therefore, the requirements of OAC rule 3745-17-08(B), which requires the installation of reasonably available control measures to prevent fugitive dust, do not apply to this emissions unit pursuant to OAC rule 3745-17-08(A)(1).
- f. The emissions from the receiving operations associated with this emissions unit shall be vented to a baghouse(s) at all times when the emissions unit is in operation.
- g. The permittee shall demonstrate compliance with the applicable limitations identified in 40 CFR Part 60, Subpart DD in accordance with the General Provisions of the Standards of Performance for New Stationary Sources, 40 CFR Part 60, Subpart A (60.1-60.19).

c) Operational Restrictions

- (1) The maximum, combined grain throughput for emissions units F018 and F019 shall not exceed 75,000,000 bushels (2,100,000 tons) per rolling, 12-month period and the grain throughput for emissions unit F019 shall not exceed 10,000,000 bushels (280,000 tons) per rolling, 12-month period.

The permittee has existing records of the grain throughput for this emissions unit; therefore, the first year of accumulating monthly grain throughput limitations is not necessary.

d) Monitoring and/or Recordkeeping Requirements

- (1) The permittee shall maintain monthly records of the following information:
 - a. the grain throughput, in bushels;
 - b. the rolling, 12-month summation of the grain received by emissions unit F018, in bushels;
 - c. the rolling, 12-month summation of the grain received by emissions unit F019, in bushels;
 - d. the rolling, 12-month summation of the grain received by emissions units F018 and F019 combined, in bushels;
 - e. the rolling, 12-month summation of the grain received by emissions units F018 and F019 combined, in tons [the product of d)(1)d. and the conversion factor of 0.028 tons per bushel];
 - f. the rolling, 12-month PE from emissions units F018 and F019 combined, in tons, calculated in accordance with f)(1)c.; and
 - g. the rolling, 12-month PM₁₀ emissions from emissions units F018 and F019 combined, in tons, calculated in accordance with f)(1)d.

- (2) In order to maintain compliance with the applicable emission limitation(s) contained in this permit, the acceptable ranges established for the pressure drop across the baghouse is identified below:
 - a. for dust system 3, the acceptable range is between 0.5 and 6 inches of water.

- (3) The permittee shall properly install, operate, and maintain equipment to continuously monitor the pressure drop, in inches of water, across the baghouse(s) when the controlled emissions unit(s) is/are in operation, including periods of startup and shutdown. The permittee shall record the pressure drop across the baghouse(s) on a daily basis. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s), with any modifications deemed necessary by the permittee. The acceptable pressure drop shall be based upon the manufacturer's specifications until such time as any required performance testing is conducted and the appropriate range is established to demonstrate compliance.

Whenever the monitored value for the pressure drop deviates from the limit or range established in accordance with this permit, the permittee shall promptly investigate the cause of the deviation. The permittee shall maintain records of the following information for each investigation:

- a. the date and time the deviation began;
- b. the magnitude of the deviation at that time;
- c. the date the investigation was conducted;
- d. the name(s) of the personnel who conducted the investigation; and

- e. the findings and recommendations.

In response to each required investigation to determine the cause of a deviation, the permittee shall take prompt corrective action to bring the operation of the control equipment within the acceptable range specified in this permit, unless the permittee determines that corrective action is not necessary and documents the reasons for that determination and the date and time the deviation ended. The permittee shall maintain records of the following information for each corrective action taken:

- a. a description of the corrective action;
- b. the date corrective action was completed;
- c. the date and time the deviation ended;
- d. the total period of time (in minutes) during which there was a deviation;
- e. the pressure drop readings immediately after the corrective action was implemented; and
- f. the name(s) of the personnel who performed the work.

Investigation and records required by this paragraph do not eliminate the need to comply with the requirements of OAC rule 3745-15-06 if it is determined that a malfunction has occurred.

This range or limit on the pressure drop across the baghouse(s) is effective for the duration of this permit, unless revisions are requested by the permittee and approved in writing by the appropriate Ohio EPA District Office or local air agency. The permittee may request revisions to the permitted limit or range for the pressure drop based upon information obtained during future testing that demonstrate compliance with the allowable particulate emission rate for the controlled emissions unit(s). In addition, approved revisions to the range or limit will not constitute a relaxation of the monitoring requirements of this permit and may be incorporated into this permit by means of an administrative modification.

- (4) The permittee shall perform daily checks, when the emissions unit is in operation, for any visible particulate emissions from the stack(s) of each baghouse serving this emission unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
 - a. the color of the emissions;
 - b. the total duration of any visible emission incident; and
 - c. any corrective actions taken to eliminate the visible emissions.

- (5) The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any fugitive particulate emissions from the egress

points (i.e., building windows, doors, roof monitors, etc.) serving the receiving operations associated with this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:

- a. the location and color of the emissions;
- b. whether the emissions are representative of normal operations;
- c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
- d. the total duration of any visible emission incident; and
- e. any corrective actions taken to minimize or eliminate the visible emissions.

If visible emissions are present, a visible emission incident has occurred. The observer does not have to document the exact start and end times for the visible emission incident under item (d) above or continue the daily check until the incident has ended. The observer may indicate that the visible emission incident was continuous during the observation period (or, if known, continuous during the operation of the emissions unit). With respect to the documentation of corrective actions, the observer may indicate that no corrective actions were taken if the visible emissions were representative of normal operations, or specify the minor corrective actions that were taken to ensure that the emissions unit continued to operate under normal conditions, or specify the corrective actions that were taken to eliminate abnormal visible emissions.

e) Reporting Requirements

- (1) Unless other arrangements have been approved by the Director, all notifications and reports shall be submitted through the Ohio EPA's eBusiness Center: Air Services online web portal.
- (2) The permittee shall submit quarterly deviation (excursion) reports that identify:
 - a. all deviations (excursions) of the following emission limitations, operational restrictions and/or control device operating parameter limitations that restrict the potential to emit (PTE) of any regulated air pollutant and have been detected by the monitoring, record keeping and/or testing requirements in this permit:
 - i. each rolling, 12-month period when the combined grain throughput limitation of 75,000,000 bushels for grain received by emissions units F018 and F019 was exceeded;
 - ii. each rolling, 12-month period when the grain throughput limitation of 10,000,000 bushels for grain received by emissions units F019 was exceeded;
 - iii. each rolling, 12-month period when the combined PE limitation of 13.85tons for emissions units F018 and F019 was exceeded;

- iv. each rolling, 12-month period when the combined PM₁₀ emissions limitation of 6.06tons for emissions units F018 and F019 was exceeded;
 - v. each period of time (start time and date, and end time and date)when the pressure drop across the baghouse(s) was outside of the acceptable range; and
 - vi. any period of time (start time and date, and end time and date)when the emissions unit(s) was/were in operation and the process emissions were not vented to the baghouse(s).
- b. the probable cause of each deviation (excursion);
 - c. any corrective actions that were taken to remedy the deviations (excursions) or prevent future deviations (excursions); and
 - d. the magnitude and duration of each deviation (excursion).

If no deviations (excursions) occurred during a calendar quarter, the permittee shall submit a report that states that no deviations (excursions) occurred during the quarter.

The quarterly reports shall be submitted,electronically through Ohio EPA Air Services, each year by January 31 (covering October to December), April 30 (covering January to March), July 31 (covering April to June), and October 31 (covering July to September), unless an alternative schedule has been established and approved by the Director (the Central District Office).

- (3) Annual Permit Evaluation Report (PER)forms will be mailed to the permittee at the end of the reporting period specified in the Authorization section of this permit. The permittee shall submit the PER in the form and manner provided by the director by the due date identified in the Authorization section of this permit. The permit evaluation report shall cover a reporting period of no more than twelve-months for each air contaminant source identified in this permit.

f) Testing Requirements

- (1) Compliance with the Emissions Limitations and/or Control Requirements specified in section b) of these terms and conditions shall be determined in accordance with the following methods:

- a. Emissions Limitation:

PE shall not exceed 4.39lbs/hr (as applicable prior to U.S. EPA approving the December 1, 2006, version of OAC rule 3745-31-05 as part of the SIP).

- Applicable Compliance Method:

Compliance with this limitation may be determined through the following calculations:

Total PE = Fugitive PE + Stack PE; where,

Fugitive PE = $(G_{\max} * E_f) * (1 - \text{CapE})$; where,

G_{\max} = maximum hourly grain throughput (560 tons per hour);

E_f = AP-42# emissions factor (0.032 lb PE/ton grain);

CapE = capture efficiency (80%); and

Stack PE = $\text{AOC} * \text{EV} * 60 * (1 \text{ lb}/7000 \text{ gr})$; where,

AOC = the maximum allowable outlet concentration (0.005 gr/dscf); and

EV = the maximum expected air flow rate (19,000 acfm)

- AP-42, Volume I, Fifth Edition, Section 9.9, "Grain Processing", Table 9.9.1-1, March 2003.

b. Emissions Limitation:

PM₁₀ emissions shall not exceed 1.68lbs/hr (as applicable prior to U.S. EPA approving the December 1, 2006, version of OAC rule 3745-31-05 as part of the SIP).

Applicable Compliance Method:

Compliance with this limitation may be determined through the following calculations:

Total PM₁₀ = Fugitive PM₁₀ + Stack PM₁₀; where,

Fugitive PM₁₀ = $(G_{\max} * E_f) * (1 - \text{CapE})$; where,

G_{\max} = maximum hourly grain throughput (560 tons per hour);

E_f = AP-42# emissions factor (0.0078 lb PM₁₀/ton grain);

CapE = capture efficiency (80%); and

Stack PM₁₀ = $\text{AOC} * \text{EV} * 60 * (1 \text{ lb}/7000 \text{ gr})$; where,

AOC = the maximum allowable outlet concentration (0.005 gr/dscf); and

EV = the maximum expected air flow rate (19,000 acfm);

- AP-42, Volume I, Fifth Edition, Section 9.9, "Grain Processing", Table 9.9.1-1, March 2003.

c. Emissions Limitation:

Stack and fugitive PE from emissions units F018 and F019 combined shall not exceed 13.85 tons per rolling, 12-month period.

Applicable Compliance Method:

Compliance shall be demonstrated by the record keeping requirements identified in d)(1) and the following equations:

Total PE = F018 fugitive PE + F019 fugitive PE + F018 stack PE; where,

F018 stack PE = AOC * EV * 60 * (1 lb/7000 gr) * (8,760 hrs/2,000 lbs); where,

AOC = the actual outlet concentration measured during the most recent compliance demonstration that demonstrated compliance with the 0.005 gr/dscf limitation, in gr/dscf;

EV = the stack exit velocity measured during the most recent compliance demonstration that demonstrated compliance with the 0.005 gr/dscf limitation, in dscf/min; and

F018 fugitive PE = (Tons grain received by F018 * E_f) * (1-CapE); where,

E_f = AP-42[#] emissions factor (0.032 lb PE/ton grain);

CapE = capture efficiency (80%); and

F019 fugitive PE = (Tons grain received by F019 * E_f); where,

E_f = AP-42[#] emissions factor (0.032 lb PE/ton grain);

- AP-42, Volume I, Fifth Edition, Section 9.9, "Grain Processing", Table 9.9.1-1, March 2003.

d. Emissions Limitation:

Stack and fugitive PM₁₀ emissions from emissions units F018 and F019 combined shall not exceed 6.06 tons per rolling, 12-month period.

Applicable Compliance Method:

Compliance shall be demonstrated by the record keeping requirements identified in d)(1) and the following equations:

Total PM₁₀ = F018 fugitive PM₁₀ + F019 fugitive PM₁₀ + F018 stack PM₁₀; where,

F018 stack PM₁₀ = AOC * EV * 60 * (1 lb/7000 gr) * (8,760 hrs/2,000 lbs); where,

AOC = the actual outlet concentration measured during the most recent compliance demonstration that demonstrated compliance with the 0.005 gr/dscf limitation, in gr/dscf;

EV = the stack exit velocity measured during the most recent compliance demonstration that demonstrated compliance with the 0.005 gr/dscf limitation, in dscf/min; and

F018 fugitive PM₁₀ = (Tons grain received by F018 * E_f) * (1-CapE); where,

E_f = AP-42[#] emissions factor (0.0078 lb PM₁₀/ton grain);

CapE = capture efficiency (80%); and

F019 fugitive PM₁₀ = (Tons grain received by F019 * E_f); where,

E_f = AP-42[#] emissions factor (0.0078 lb PM₁₀/ton grain);

- AP-42, Volume I, Fifth Edition, Section 9.9, "Grain Processing", Table 9.9.1-1, March 2003.

e. Emissions Limitation:

PE from the stack of the baghouse serving this emissions unit shall not exceed 0.005gr/dscf.

Applicable Compliance Method:

If required, compliance with the grain loading limitation shall be demonstrated according to 40 CFR Part 60, Appendix A, method 5.

f. Emissions Limitation:

Visible emissions from the stack(s) of each baghouse serving this emission unit shall not exceed 0 percent opacity.

Applicable Compliance Method:

If required, compliance with the visible emission limitation for the fugitive dust from receiving operations associated with this emissions unit shall be determined through visible emission observations performed in accordance with U.S. EPA Method 9.

g. Emissions Limitation:

Visible emissions of fugitive dust from receiving operations associated with this emissions unit shall not exceed 5 percent opacity.

Applicable Compliance Method:

If required, compliance with the visible emission limitation for the fugitive dust from receiving operations associated with this emissions unit shall be determined through visible emission observations performed in accordance with U.S. EPA Method 9.

g) Miscellaneous Requirements

(1) None.

5. F020, Handling 1

Operations, Property and/or Equipment Description:

Grain handling, transferring, and conveying including conveyors, elevators and bins (FKA F005)

- a) This permit document constitutes a permit-to-install issued in accordance with ORC 3704.03(F) and a permit-to-operate issued in accordance with ORC 3704.03(G).
 - (1) For the purpose of a permit-to-install document, the emissions unit terms and conditions identified below are federally enforceable with the exception of those listed below which are enforceable under state law only.
 - a. None.
 - (2) For the purpose of a permit-to-operate document, the emissions unit terms and conditions identified below are enforceable under state law only with the exception of those listed below which are federally enforceable.
 - a. b)(1)c., d)(1), and e)(2)
- b) Applicable Emissions Limitations and/or Control Requirements
 - (1) The specific operation(s), property, and/or equipment that constitute each emissions unit along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures are identified below. Emissions from each unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-31-05(A)(3), as effective 11/30/01	Stack and fugitive particulate emissions (PE) shall not exceed 2.87pounds per hour (lbs/hr). Stack and fugitiveemissions of particulate matter less than ten microns in diameter (PM ₁₀) shall not exceed 2.39lb/hr. See b)(2)a. and b)(2)c.
b.	OAC rule 3745-31-05(A)(3)(a)(ii), as effective 12/01/06	See b)(2)b.
c.	OAC rule 3745-31-05(D) (Synthetic minor to avoid PSD) (Synthetic minor to avoid Title V)	PE from the stackof the baghouse serving this emissions unit shall not exceed 0.005 grains per dry standard cubic feet (gr/dscf). Stack and fugitive PEfrom this emissions unitshall not exceed 8.49 tons per rolling, 12-month period.

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
		Stack and fugitive PM ₁₀ emissions shall not exceed 8.21 tons per rolling, 12-month period. See b)(2)f.
d.	OAC rule 3745-17-07(A)(1)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to 40 CFR Part 60 Subpart DD.
d.	OAC rule 3745-17-07(B)	See b)(2)d.
e.	OAC rule 3745-17-08(A)(1)	See b)(2)e.
f.	OAC rule 3745-17-11(B)(3)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(D).
g.	40 CFR Part 60, Subpart DD	The grain loading limitation specified by this rule is less stringent than the grain loading limitation established pursuant to OAC rule 3745-31-05(D). Visible emissions from the stack(s) of each baghouse serving this emission unit shall not exceed 0 percent opacity. Visible emissions of fugitive dust from grain handling operations associated with this emissions unit shall not exceed 0 percent opacity.
h.	40 CFR Part 60, Subpart A	See b)(2)g.

(2) Additional Terms and Conditions

- a. The permittee has satisfied the Best Available Technology (BAT) requirements pursuant to OAC rule 3745-31-05(A)(3), as effective November 30, 2001, in this permit. On December 1, 2006, paragraph (A)(3) of OAC rule 3745-31-05 was revised to conform to ORC changes effective August 3, 2006 (Senate Bill 265 changes), such that BAT is no longer required by State regulations for emissions units that have the potential to emit less than ten tons per year for pollutants to which National Ambient Air Quality Standards (NAAQS) apply. However, that rule revision has not yet been approved by U.S. EPA as a revision to Ohio's State Implementation Plan (SIP). Until the SIP revision occurs and U.S. EPA approves the revisions to OAC rule 3745-31-05, the requirement to satisfy BAT still exists as part of the federally-approved SIP for Ohio. When U.S. EPA approves the December 1, 2006, version of OAC rule 3745-31-05, these emissions limitations/control measures will no longer apply.

- b. The following rule paragraphs will apply when U.S. EPA approves the December 1, 2006, version of OAC rule 3745-31-05 as part of the SIP:
 - i. The BAT requirements under OAC rule 3745-31-05(A)(3) do not apply to the PE from this air contaminant source because the calculated annual emission rate for PE is less than 10 tons/year, taking into consideration the federally enforceable rule limit of 8.49 tons per rolling, 12-month period under OAC rule 3745-31-05(D); and
 - ii. The BAT requirements under OAC rule 3745-31-05(A)(3) do not apply to the PM₁₀ emissions from this air contaminant source because the calculated annual emission rate for PM₁₀ is less than 10 tons/year, taking into consideration the federally enforceable rule limit of 8.21 tons per rolling, 12-month period under OAC rule 3745-31-05(D).
 - c. The hourly PE and PM₁₀ emissions limitations were established to reflect the potential to emit for this emissions unit taking into consideration the synthetic minor operational restrictions established for emissions units F005, F016, F017, F018, F019, F009 and F021. The monitoring, recordkeeping, reporting, and testing requirements, established in the following terms and conditions are sufficient to demonstrate compliance with these limitations.
 - d. The rolling, 12-month PE and PM₁₀ emissions limitations were established to reflect the potential to emit taking into consideration the synthetic minor operational restrictions established for emissions units F005, F016, F017, F018, F019, F009 and F021. The monitoring, recordkeeping, reporting, and testing requirements, established in the following terms and conditions in conjunction with the requirements established for emissions units F005, F016, F017, F018, F019, F009 and F021 are sufficient to demonstrate compliance with these limitations.
 - e. This emissions unit is exempt from the visible particulate fugitive dust emission limitations specified in OAC rule 3745-17-07(B) pursuant to OAC rule 3745-17-07(B)(11)(e).
 - f. This emissions unit is not located within areas identified in "Appendix A" of OAC rule 3745-17-08, therefore, the requirements of OAC rule 3745-17-08(B), which requires the installation of reasonably available control measures to prevent fugitive dust, do not apply to this emissions unit pursuant to OAC rule 3745-17-08(A)(1).
 - g. The permittee shall demonstrate compliance with the applicable limitations identified in 40 CFR Part 60, Subpart DD in accordance with the General Provisions of the Standards of Performance for New Stationary Sources, 40 CFR Part 60, Subpart A (60.1-60.19).
- c) Operational Restrictions
- (1) None.

d) Monitoring and/or Recordkeeping Requirements

- (1) The permittee shall maintain monthly records of the following information:
 - a. the amount of grain received, in tons, at emissions units F005, F016, F017, F018 and F019;
 - b. the amount of grain loaded-out, in tons, from emissions units F009 and F021;
 - c. the rolling, 12-month summation of grain received, in tons, at emissions units F005, F016, F017, F018 and F019;
 - d. the rolling, 12-month summation of grain loaded-out, in tons, from emissions units F009 and F021;
 - e. the rolling, 12-month PE, in tons, calculated in accordance with f)(1)c.; and
 - f. the rolling, 12-month PM₁₀ emissions, in tons, calculated in accordance with f)(1)d.

- (2) In order to maintain compliance with the applicable emission limitation(s) contained in this permit, the acceptable ranges established for the pressure drop across the baghouses are identified below:
 - a. for dust system 1, the acceptable range is between 1 and 6 inches of water;
 - b. for dust system 2, the acceptable range is between 0.5 and 6 inches of water; and
 - c. for dust system 3, the acceptable range is between 1 and 6 inches of water.

- (3) The permittee shall properly install, operate, and maintain equipment to continuously monitor the pressure drop, in inches of water, across the baghouse(s) when the controlled emissions unit(s) is/are in operation, including periods of startup and shutdown. The permittee shall record the pressure drop across the baghouse(s) on a daily basis. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s), with any modifications deemed necessary by the permittee. The acceptable pressure drop shall be based upon the manufacturer's specifications until such time as any required performance testing is conducted and the appropriate range is established to demonstrate compliance.

Whenever the monitored value for the pressure drop deviates from the limit or range established in accordance with this permit, the permittee shall promptly investigate the cause of the deviation. The permittee shall maintain records of the following information for each investigation:

- a. the date and time the deviation began;
- b. the magnitude of the deviation at that time;
- c. the date the investigation was conducted;

- d. the name(s) of the personnel who conducted the investigation; and
- e. the findings and recommendations.

In response to each required investigation to determine the cause of a deviation, the permittee shall take prompt corrective action to bring the operation of the control equipment within the acceptable range specified in this permit, unless the permittee determines that corrective action is not necessary and documents the reasons for that determination and the date and time the deviation ended. The permittee shall maintain records of the following information for each corrective action taken:

- a. a description of the corrective action;
- b. the date corrective action was completed;
- c. the date and time the deviation ended;
- d. the total period of time (in minutes) during which there was a deviation;
- e. the pressure drop readings immediately after the corrective action was implemented; and
- f. the name(s) of the personnel who performed the work.

Investigation and records required by this paragraph do not eliminate the need to comply with the requirements of OAC rule 3745-15-06 if it is determined that a malfunction has occurred.

This range or limit on the pressure drop across the baghouse(s) is effective for the duration of this permit, unless revisions are requested by the permittee and approved in writing by the appropriate Ohio EPA District Office or local air agency. The permittee may request revisions to the permitted limit or range for the pressure drop based upon information obtained during future testing that demonstrate compliance with the allowable particulate emission rate for the controlled emissions unit(s). In addition, approved revisions to the range or limit will not constitute a relaxation of the monitoring requirements of this permit and may be incorporated into this permit by means of an administrative modification.

- (4) The permittee shall perform daily checks, when the emissions unit is in operation, for any visible particulate emissions from the stack(s) of each baghouse serving this emission unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
 - a. the color of the emissions;
 - b. the total duration of any visible emission incident; and
 - c. any corrective actions taken to eliminate the visible emissions.

- (5) The permittee shall perform daily checks, when the emissions unit is in operation, for any visible fugitive particulate emissions from the grain handling operations. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
- a. the color of the emissions;
 - b. the total duration of any visible emission incident; and
 - c. any corrective actions taken to eliminate the visible emissions.

e) Reporting Requirements

- (1) Unless other arrangements have been approved by the Director, all notifications and reports shall be submitted through the Ohio EPA's eBusiness Center: Air Services online web portal.
- (2) The permittee shall submit quarterly deviation (excursion) reports that identify:
- a. all deviations (excursions) of the following emission limitations, operational restrictions and/or control device operating parameter limitations that restrict the potential to emit (PTE) of any regulated air pollutant and have been detected by the monitoring, record keeping and/or testing requirements in this permit:
 - i. each rolling, 12-month period when the PE limitation of 8.49tons was exceeded; and
 - ii. each rolling, 12-month period when the PM₁₀ emissions limitation of 8.21tons was exceeded.
 - b. the probable cause of each deviation (excursion);
 - c. any corrective actions that were taken to remedy the deviations (excursions) or prevent future deviations (excursions); and
 - d. the magnitude and duration of each deviation (excursion).

If no deviations (excursions) occurred during a calendar quarter, the permittee shall submit a report that states that no deviations (excursions) occurred during the quarter.

The quarterly reports shall be submitted,electronically through Ohio EPA Air Services, each year by January 31 (covering October to December), April 30 (covering January to March), July 31 (covering April to June), and October 31 (covering July to September), unless an alternative schedule has been established and approved by the Director (the appropriate District Office or local air agency).

- (3) Annual Permit Evaluation Report (PER)forms will be mailed to the permittee at the end of the reporting period specified in the Authorization section of this permit. The permittee shall submit the PER in the form and manner provided by the director by the due date identified in the Authorization section of this permit. The permit evaluation report shall

cover a reporting period of no more than twelve-months for each air contaminant source identified in this permit.

f) Testing Requirements

(1) Compliance with the Emissions Limitations and/or Control Requirements specified in section b) of these terms and conditions shall be determined in accordance with the following methods:

a. Emissions Limitation:

PE shall not exceed 2.87lbs/hr (as applicable prior to U.S. EPA approving the December 1, 2006, version of OAC rule 3745-31-05 as part of the SIP).

Applicable Compliance Method:

Compliance with this limitation may be determined through the following calculations:

Total PE = Fugitive PE + Stack PE; where,

Fugitive PE = $(G_{max} * E_f) * (1 - CapE)$; where,

G_{max} = maximum hourly grain throughput (1,764 tons per hour);

E_f = AP-42[#] emissions factor (0.061 lb PE/ton grain);

CapE = capture efficiency (99%); and

Stack PE = Dust System1 PE + Dust System2 PE + Dust System3 PE; where,

Dust System1 PE = $AOC * EV * 60 * (1 \text{ lb}/7000 \text{ gr})$; where,

AOC = the maximum allowable outlet concentration (0.005 gr/dscf); and

EV = the maximum expected air flow rate (12,500 acfm)

Dust System2 PE = $AOC * EV * 60 * (1 \text{ lb}/7000 \text{ gr})$; where,

AOC = the maximum allowable outlet concentration (0.005 gr/dscf); and

EV = the maximum expected air flow rate (10,150 acfm)

Dust System3 PE = $AOC * EV * 60 * (1 \text{ lb}/7000 \text{ gr})$; where,

AOC = the maximum allowable outlet concentration (0.005 gr/dscf); and

EV = the maximum expected air flow rate (19,000 acfm)

- AP-42, Volume I, Fifth Edition, Section 9.9, "Grain Processing", Table 9.9.1-1, March 2003.

b. Emissions Limitation:

PM₁₀ emissions shall not exceed 2.39lbs/hr (as applicable prior to U.S. EPA approving the December 1, 2006, version of OAC rule 3745-31-05 as part of the SIP).

Applicable Compliance Method:

Compliance with this limitation may be determined through the following calculations:

Total PM₁₀ = Fugitive PM₁₀ + Stack PM₁₀; where,

Fugitive PM₁₀ = (G_{max} * E_f) * (1-CapE); where,

G_{max} = maximum hourly grain throughput (1,764 tons per hour);

E_f = AP-42# emissions factor (0.034 lb PM₁₀/ton grain);

CapE = capture efficiency (99%); and

Stack PM₁₀ = Dust System1 PM₁₀ + Dust System2 PM₁₀ + Dust System3 PM₁₀;
where,

Dust System1 PM₁₀ = AOC * EV * 60 * (1 lb/7000 gr); where,

AOC = the maximum allowable outlet concentration (0.005 gr/dscf); and

EV = the maximum expected air flow rate (19,000 acfm);

Dust System2 PM₁₀ = AOC * EV * 60 * (1 lb/7000 gr); where,

AOC = the maximum allowable outlet concentration (0.005 gr/dscf); and
EV = the maximum expected air flow rate (10,150 acfm)

Dust System3 PM₁₀ = AOC * EV * 60 * (1 lb/7000 gr); where,

AOC = the maximum allowable outlet concentration (0.005 gr/dscf); and
EV = the maximum expected air flow rate (19,000 acfm)

- AP-42, Volume I, Fifth Edition, Section 9.9, "Grain Processing", Table 9.9.1-1, March 2003.

c. Emissions Limitation:

Stack and fugitive PE from this emissions unit shall not exceed 8.49 tons per rolling, 12-month period.

Applicable Compliance Method:

Compliance shall be demonstrated by the record keeping requirements identified in d)(1) and the following equations:

Total PE = Stack PE + Fugitive PE; where,

Stack PE = Dust System1 PE + Dust System2 PE + Dust System3 PE; where,

Dust System PE for each system = AOC * EV * 60 * (1 lb/7000 gr) * (8760 hrs/2000 lbs); where,

AOC = the actual outlet concentration measured during the most recent compliance demonstration that demonstrated compliance with the 0.005 gr/dscf limitation, in gr/dscf;

EV = the stack exit velocity measured during the most recent compliance demonstration that demonstrated compliance with the 0.005 gr/dscf limitation, in dscf/min; and

Fugitive PE = $(G_T * E_f) * (1 - CapE)$; where,

G_T = actual grain throughput for emissions units F005, F016, F017, F018, F019, F009 and F021;

E_f = AP-42# emissions factor (0.061 lb PE/ton grain);

CapE = capture efficiency (99%); and

- AP-42, Volume I, Fifth Edition, Section 9.9, "Grain Processing", Table 9.9.1-1, March 2003.

d. Emissions Limitation:

Stack and fugitive PM₁₀ emissions shall not exceed 8.21 tons per rolling, 12-month period.

Applicable Compliance Method:

Compliance shall be demonstrated by the record keeping requirements identified in d)(1) and the following equations:

Total PM₁₀ = Stack PM₁₀ + Fugitive PM₁₀; where,

Stack PM₁₀ = Dust System1 PM₁₀ + Dust System2 PM₁₀ + Dust System3 PM₁₀; where,

Dust System PM₁₀ for each system = AOC * EV * 60 * (1 lb/7000 gr) * (8760 hrs/2000 lbs); where,

AOC = the actual outlet concentration measured during the most recent compliance demonstration that demonstrated compliance with the 0.005 gr/dscf limitation, in gr/dscf;

EV = the stack exit velocity measured during the most recent compliance demonstration that demonstrated compliance with the 0.005 gr/dscf limitation, in dscf/min; and

Fugitive PM₁₀ = $(G_T * E_f) * (1 - CapE)$; where,

G_T = actual grain throughput for emissions units F005, F016, F017, F018, F019, F009 and F021;

E_f = AP-42# emissions factor (0.034 lb PE/ton grain);

CapE = capture efficiency (99%); and

- AP-42, Volume I, Fifth Edition, Section 9.9, "Grain Processing", Table 9.9.1-1, March 2003.

e. Emissions Limitation:

PE from the stack of the baghouse serving this emissions unit shall not exceed 0.005gr/dscf.

Applicable Compliance Method:

If required, compliance with the grain loading limitation shall be demonstrated according to 40 CFR Part 60, Appendix A, method 5.

f. Emissions Limitation:

Visible emissions from the stack(s) of each baghouse serving this emission unit shall not exceed 0 percent opacity.

Applicable Compliance Method:

If required, compliance with the visible emission limitation for the fugitive dust from receiving operations associated with this emissions unit shall be determined through visible emission observations performed in accordance with U.S. EPA Method 9.

g. Emissions Limitation:

Visible emissions of fugitive dust from grain handling operations shall not exceed 0 percent opacity.

Applicable Compliance Method:

If required, compliance with the visible emission limitation for the fugitive dust from receiving operations associated with this emissions unit shall be determined through visible emission observations performed in accordance with U.S. EPA Method 9.

g) Miscellaneous Requirements

(1) None.

6. F021, Load-out 3-TR/3-RL

Operations, Property and/or Equipment Description:

Grain shipping and load-out, truck and rail loading (FKA F009)

a) This permit document constitutes a permit-to-install issued in accordance with ORC 3704.03(F) and a permit-to-operate issued in accordance with ORC 3704.03(G).

(1) For the purpose of a permit-to-install document, the emissions unit terms and conditions identified below are federally enforceable with the exception of those listed below which are enforceable under state law only.

a. None.

(2) For the purpose of a permit-to-operate document, the emissions unit terms and conditions identified below are enforceable under state law only with the exception of those listed below which are federally enforceable.

a. b)(1)a., c)(1), d)(1), d)(2), and e)(2).

b) Applicable Emissions Limitations and/or Control Requirements

(1) The specific operation(s), property, and/or equipment that constitute each emissions unit along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures are identified below. Emissions from each unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-31-05(D) (Synthetic minor to avoid PSD) (Synthetic minor to avoid Title V) ORC 3704.03(T)	Fugitive PE from rail load-out operations for emissions unit F021 shall not exceed 28.35 tons per rolling, 12-month period. Fugitive PM ₁₀ emissions from rail load-out operations for emissions unit F021 shall not exceed 2.31 tons per rolling, 12-month period. Fugitive particulate emissions (PE) from truck load-out operations for emissions units F009 and F021 combined shall not exceed 30.10 tons per rolling, 12-month period. Fugitive emissions of particulate matter less than ten microns in diameter (PM ₁₀) from truck load-out operations for emissions units F009 and F021 combined shall not exceed 10.15 tons per rolling,

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
		12-month period. See c)(1)
b.	OAC rule 3745-17-07(B)	See b)(2)a.
c.	OAC rule 3745-17-08(A)(1)	See b)(2)b.
d.	40 CFR Part 60, Subpart DD ORC 3704.03(T)	Visible emissions of fugitive dust from rail load-out operations shall not exceed 5 percent opacity. Visible emissions of fugitive dust from truck load-out operations shall not exceed 10 percent opacity.
e.	40 CFR Part 60, Subpart A	See b)(2)c.

(2) Additional Terms and Conditions

- a. This emissions unit is exempt from the visible particulate fugitive dust emission limitations specified in OAC rule 3745-17-07(B) pursuant to OAC rule 3745-17-07(B)(11)(e).
- b. This emissions unit is not located within areas identified in "Appendix A" of OAC rule 3745-17-08, therefore, the requirements of OAC rule 3745-17-08(B), which requires the installation of reasonably available control measures to prevent fugitive dust, do not apply to this emissions unit pursuant to OAC rule 3745-17-08(A)(1).
- c. The permittee shall demonstrate compliance with the applicable limitations identified in 40 CFR Part 60, Subpart DD in accordance with the General Provisions of the Standards of Performance for New Stationary Sources, 40 CFR Part 60, Subpart A (60.1-60.19).

c) Operational Restrictions

- (1) The maximum grain loaded-out to rail for emissions units F021 shall not exceed 75,000,000 bushels (2,100,000 tons) per rolling, 12-month period.

The maximum, combined grain loaded-out to truck for emissions units F009 and F021 shall not exceed 25,000,000 bushels (700,000 tons) per rolling, 12-month period.

The permittee has existing records of the grain throughput for this emissions unit; therefore, the first year of accumulating monthly grain throughput limitations is not necessary.

d) Monitoring and/or Recordkeeping Requirements

- (1) The permittee shall maintain monthly records of the following information:

- a. the grain loaded-out to rail for emissions unit F021, in bushels;
 - b. the rolling, 12-month summation of the grain loaded-out to rail for emissions unit F021, in bushels;
 - c. the rolling, 12-month summation of the grain loaded-out to rail for emissions unit F021, in tons [the product of d)(1)b. and the conversion factor of 0.028 tons per bushel];
 - d. the rolling, 12-month PE from grain loaded-out to rail for emissions unit F021, in tons, calculated in accordance with f)(1)a.; and
 - e. the rolling, 12-month PM₁₀ emissions from grain loaded-out to rail for emissions unit F021, in tons, calculated in accordance with f)(1)b.
- (2) The permittee shall maintain monthly records of the following information:
- a. the grain loaded-out to truck for emissions unit F009, in bushels;
 - b. the grain loaded-out to truck for emissions unit F021, in bushels;
 - c. the combined, rolling, 12-month summation of grain loaded-out to truck for emissions units F009 and F021, in bushels;
 - d. the combined, rolling, 12-month summation of grain loaded-out to truck for emissions units F009 and F021, in tons [the product of d)(2)c. and the conversion factor of 0.028 tons per bushel];
 - e. the combined, rolling, 12-month PE from grain loaded-out to truck for emissions units F009 and F021, in tons, calculated in accordance with f)(1)c.; and
 - f. the combined, rolling, 12-month PM₁₀ emissions from grain loaded-out to truck for emissions units F009 and F021, in tons, calculated in accordance with f)(1)d.
- (3) The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any fugitive particulate emissions from the egress points (i.e., building windows, doors, roof monitors, etc.) serving the loadout operations associated with this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
- a. the location and color of the emissions;
 - b. whether the emissions are representative of normal operations;
 - c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
 - d. the total duration of any visible emission incident; and
 - e. any corrective actions taken to minimize or eliminate the visible emissions.

- (4) If visible emissions are present, a visible emission incident has occurred. The observer does not have to document the exact start and end times for the visible emission incident under item (d) above or continue the daily check until the incident has ended. The observer may indicate that the visible emission incident was continuous during the observation period (or, if known, continuous during the operation of the emissions unit). With respect to the documentation of corrective actions, the observer may indicate that no corrective actions were taken if the visible emissions were representative of normal operations, or specify the minor corrective actions that were taken to ensure that the emissions unit continued to operate under normal conditions, or specify the corrective actions that were taken to eliminate abnormal visible emissions.

e) Reporting Requirements

- (1) Unless other arrangements have been approved by the Director, all notifications and reports shall be submitted through the Ohio EPA's eBusiness Center: Air Services online web portal.
- (2) The permittee shall submit quarterly deviation (excursion) reports that identify:
- a. all deviations (excursions) of the following emission limitations, operational restrictions and/or control device operating parameter limitations that restrict the potential to emit (PTE) of any regulated air pollutant and have been detected by the monitoring, record keeping and/or testing requirements in this permit:
 - i. each rolling, 12-month period when the grain loaded-out to rail limitation of 75,000,000 bushels for emissions unit F021 was exceeded;
 - ii. each rolling, 12-month period when the PE limitation of 28.35tons from rail load-out operations for emissions unit F021 was exceeded;
 - iii. each rolling, 12-month period when the PM₁₀ emissions limitation of 2.31tons from rail load-out operations for emissions unit F021 was exceeded;
 - iv. each rolling, 12-month period when the combined limitation for grain loaded-out to trucks for emissions unit F009 and F021 of 25,000,000 bushels was exceeded;
 - v. each rolling, 12-month period when the combined PE limitation of 30.10tons from truck load-out operations for emissions units F009 and F021 was exceeded; and
 - vi. each rolling, 12-month period when the combined PM₁₀ emissions limitation of 10.15tons from truck load-out operations for emissions units F009 and F021 was exceeded.
 - b. the probable cause of each deviation (excursion);
 - c. any corrective actions that were taken to remedy the deviations (excursions) or prevent future deviations (excursions); and
 - d. the magnitude and duration of each deviation (excursion).

If no deviations (excursions) occurred during a calendar quarter, the permittee shall submit a report that states that no deviations (excursions) occurred during the quarter.

The quarterly reports shall be submitted,electronically through Ohio EPA Air Services, each year by January 31 (covering October to December), April 30 (covering January to March), July 31 (covering April to June), and October 31 (covering July to September), unless an alternative schedule has been established and approved by the Director (the Central District Office).

- (3) Annual Permit Evaluation Report (PER)forms will be mailed to the permittee at the end of the reporting period specified in the Authorization section of this permit. The permittee shall submit the PER in the form and manner provided by the director by the due date identified in the Authorization section of this permit. The permit evaluation report shall cover a reporting period of no more than twelve-months for each air contaminant source identified in this permit.

f) Testing Requirements

- (1) Compliance with the Emissions Limitations and/or Control Requirements specified in section b) of these terms and conditions shall be determined in accordance with the following methods:

a. Emissions Limitation:

Fugitive PEfrom rail load-out operations for emissions unit F021 shall not exceed 28.35 tons per rolling, 12-month period.

Applicable Compliance Method:

Compliance shall be demonstrated by the record keeping requirements identified in d)(1) and the following calculations:

$$\text{Fugitive PE} = \text{tons grain throughput} * E_f$$

where,

tons grain throughput = grain loaded out to rail for emissions unit F021

E_f = AP-42[#] emissions factor (0.027 lb PE/ton grain);

- AP-42, Volume I, Fifth Edition, Section 9.9, "Grain Processing", Table 9.9.1-1, March 2003.

b. Emissions Limitation:

Fugitive PM₁₀emissionsfrom rail load-out operations for emissions unit F021 shall not exceed2.31 tons per rolling, 12-month period.

Applicable Compliance Method:

Compliance shall be demonstrated by the record keeping requirements identified in d)(1) and the following calculations:

$$\text{Fugitive PM}_{10} = \text{tons grain throughput} * E_f$$

where,

tons grain throughput = grain loaded out to rail for emissions unit F021

E_f = AP-42[#] emissions factor (0.0022 lb PM₁₀/ton grain);

- AP-42, Volume I, Fifth Edition, Section 9.9, "Grain Processing", Table 9.9.1-1, May 2003.

c. Emissions Limitation:

Fugitive PE from truck load-out operations for emissions units F009 and F021 combined shall not exceed 30.10 tons per rolling, 12-month period.

Applicable Compliance Method:

Compliance shall be demonstrated by the record keeping requirements identified in d)(2) and the following calculations:

$$\text{Fugitive PE} = \text{tons grain throughput} * E_f$$

where,

tons grain throughput = combined grain loaded-out to trucks for emissions units F009 and F021

E_f = AP-42[#] emissions factor (0.086 lb PE/ton grain)

- AP-42, Volume I, Fifth Edition, Section 9.9, "Grain Processing", Table 9.9.1-1, March 2003.

d. Emissions Limitation:

Fugitive PM₁₀ emissions from truck load-out operations for emissions units F009 and F021 combined shall not exceed 10.15 tons per rolling, 12-month period.

Applicable Compliance Method:

Compliance shall be demonstrated by the record keeping requirements identified in d)(2) and the following calculations:

$$\text{Fugitive PM}_{10} = \text{tons grain throughput} * E_f$$

where,

tons grain throughput = combined grain loaded-out to trucks for emissions units F009 and F021

E_f = AP-42[#] emissions factor (0.029 lb PM₁₀/ton grain)

- AP-42, Volume I, Fifth Edition, Section 9.9, "Grain Processing", Table 9.9.1-1, May 2003.

e. Emissions Limitations:

Visible emissions of fugitive dust from rail load-out operations shall not exceed 5 percent opacity.

Visible emissions of fugitive dust from truck load-out operations shall not exceed 10 percent opacity.

Applicable Compliance Method:

If required, compliance with the visible emission limitations for the fugitive dust from rail load-out operations shall be determined through visible emission observations performed in accordance with U.S. EPA Method 9.

g) Miscellaneous Requirements

(1) None.

7. Emissions Unit Group -Grain Dryers: F008,F010,

EU ID	Operations, Property and/or Equipment Description
F008	Zimmerman grain dryer no. 1
F010	Zimmerman grain dryer no. 2

- a) This permit document constitutes a permit-to-install issued in accordance with ORC 3704.03(F) and a permit-to-operate issued in accordance with ORC 3704.03(G).
- (1) For the purpose of a permit-to-install document, the emissions unit terms and conditions identified below are federally enforceable with the exception of those listed below which are enforceable under state law only.
- a. None.
- (2) For the purpose of a permit-to-operate document, the emissions unit terms and conditions identified below are enforceable under state law only with the exception of those listed below which are federally enforceable.
- a. b)(1)d., b)(2)e., c)(1) through c)(3), d)(1), d)(2), and e)(2)
- b) Applicable Emissions Limitations and/or Control Requirements
- (1) The specific operation(s), property, and/or equipment that constitute each emissions unit along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures are identified below. Emissions from each unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-31-05(A)(3), as effective 11/30/01	Volatile organic compound (VOC) emissions from the combustion of natural gas in this emissions unit shall not exceed 0.18 pounds per hour (lbs/hr) Sulfur dioxide (SO ₂) emissions from the combustion of natural gas in this emissions unit shall not exceed 0.02 lbs/hr. Emissions of particulate matter less than ten microns in diameter (PM ₁₀) from the combustion of natural gas in this emissions unit shall not exceed 0.24 lb/hr. See b)(2)a. and b)(2)c.
b.	OAC rule 3745-31-05(A)(3)(a)(ii), as effective 12/01/06	See b)(2)b.

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
c.	ORC 3704.03(T)	Carbon monoxide (CO) emissions shall not exceed 0.03 lb/ton of grain processed. Nitrogen oxide (NO _x) emissions shall not exceed 0.04 lb/ton grain processed. Particulate emissions (PE) shall not exceed 0.11 lb/ton of grain processed. See b)(2)d.
d.	OAC rule 3745-31-05(D) (Synthetic minor to avoid PSD) (Synthetic minor to avoid Title V)	See b)(2)e., c)(1), c)(2), and c)(3).
e.	OAC rule 3745-17-07(B)	See b)(2)f. below.
f.	OAC rule 3745-17-08(A)(1)	See b)(2)g. below.
g.	40 CFR Part 60, Subpart DD	This emissions unit is exempt from Subpart DD because the column plate perforations are smaller than 2.4 mm in diameter.

(2) Additional Terms and Conditions

- a. The permittee has satisfied the Best Available Technology (BAT) requirements pursuant to OAC rule 3745-31-05(A)(3), as effective November 30, 2001, in this permit. On December 1, 2006, paragraph (A)(3) of OAC rule 3745-31-05 was revised to conform to ORC changes effective August 3, 2006 (Senate Bill 265 changes), such that BAT is no longer required by State regulations for emissions units that have the potential to emit less than ten tons per year for pollutants to which National Ambient Air Quality Standards (NAAQS) apply. However, that rule revision has not yet been approved by U.S. EPA as a revision to Ohio's State Implementation Plan (SIP). Until the SIP revision occurs and U.S. EPA approves the revisions to OAC rule 3745-31-05, the requirement to satisfy BAT still exists as part of the federally-approved SIP for Ohio. When U.S. EPA approves the December 1, 2006, version of OAC rule 3745-31-05, these emissions limitations/control measures will no longer apply.
- b. The following rule paragraphs will apply when U.S. EPA approves the December 1, 2006, version of OAC rule 3745-31-05 as part of the SIP:
 - i. The Best Available Technology (BAT) requirements under OAC rule 3745-31-05(A)(3) do not apply to the VOC, SO₂, and PM₁₀ emissions from the combustion of natural gas in this air contaminant source since the calculated annual emission rate for these pollutants is less than 10 tons/year, taking into consideration the federally enforceable rule limits established under OAC rule 3745-31-05(D) identified in b)(2)e. below; and

- ii. The BAT requirements under OAC rule 3745-31-05(A)(3) do not apply to the PM₁₀ emissions from the grain drying process associated with this air contaminant source since the calculated annual emission rate for PM₁₀ is less than 10 tons/year, taking into consideration the federally enforceable rule limits established under OAC rule 3745-31-05(D) identified in b)(2)e. below.
- c. The hourly VOC, SO₂ and PM₁₀ emissions limitations were established to reflect the potential to emit for this emissions unit. The monitoring, recordkeeping, reporting, and testing requirements, established in the following terms and conditions are sufficient to demonstrate compliance with these limitations.
- d. The lb/ton of grain processed emissions limitations for CO, NO_x and PE were established to reflect the potential to emit for this emissions unit. The monitoring, recordkeeping, reporting, and testing requirements, established in the following terms and conditions are sufficient to demonstrate compliance with these limitations.
- e. The following federally enforceable emissions limitations apply to the combustion of natural gas in emissions units F008 and F010 combined:
 - i. CO emissions shall not exceed 16.25 tons per rolling, 12-month period;
 - ii. NO_x emissions shall not exceed 19.35 tons per rolling, 12-month period;
 - iii. VOC emissions shall not exceed 1.06 ton per rolling, 12-month period;
 - iv. SO₂ emissions shall not exceed 0.12 ton per rolling, 12-month period;
 - v. PE shall not exceed 1.47 ton per rolling, 12-month period; and
 - vi. PM₁₀ emissions shall not exceed 1.47 tons per rolling, 12-month period.

The following federally enforceable emissions limitations apply to the emissions from the grain drying process associated with emissions units F008 and F010 combined:

 - i. PE shall not exceed 26.21 tons per rolling, 12-month period; and
 - ii. PM₁₀ shall not exceed 6.55 tons per rolling, 12-month period.
- f. This emissions unit is exempt from the visible particulate fugitive dust emission limitations specified in OAC rule 3745-17-07(B) pursuant to OAC rule 3745-17-07(B)(11)(e).
- g. This emissions unit is not located within areas identified in "Appendix A" of OAC rule 3745-17-08, therefore, the requirements of OAC rule 3745-17-08(B), which requires the installation of reasonably available control measures to prevent fugitive dust, do not apply to this emissions unit pursuant to OAC rule 3745-17-08(A)(1).

c) Operational Restrictions

- (1) This emissions unit shall burn only natural gas.
- (2) The maximum natural gas usage for grain dryers F008 and F010 combined shall not exceed 387 million cubic feet (MMcf) per rolling, 12-month period. The permittee has existing records of the natural gas usage for this emissions unit, therefore, the first year of accumulating monthly natural gas usage limitations is not necessary.
- (3) The maximum grain throughput for F008 and F010 combined shall not exceed 18,000,000 bushels (504,000 tons) per rolling, 12-month period. The permittee has existing records of the grain throughput for this emissions unit, therefore, the first year of accumulating monthly grain throughput limitations is not necessary.

d) Monitoring and/or Recordkeeping Requirements

- (1) For each day during which the permittee burns a fuel other than natural gas, the permittee shall maintain a record of the type and quantity of the fuel burned in this emissions unit.
- (2) The permittee shall maintain monthly records of the following information for emissions units F008 and F010:
 - a. the natural gas usage, in MMcf;
 - b. the rolling, 12-month natural gas usage, in MMcf;
 - c. the grain throughput, in bushels;
 - d. the rolling, 12-month summation of the grain throughput, in tons [the product of d)(1)c. and the conversion factor of 0.028 tons per bushel]
 - e. the rolling, 12-month summation of the grain throughput for emissions units F008 and F010 combined, in bushels;
 - f. the rolling, 12-month summation of the grain throughput for emissions units F008 and F010 combined, in tons [the product of d)(1)e. and the conversion factor of 0.028 tons per bushel];
 - g. the rolling, 12-month CO, NO_x, VOC, PE, PM₁₀ and SO₂ emissions from the combustion of natural gas from emissions units F008 and F010 combined, in tons, calculated in accordance with f)(1)c.;
 - h. the rolling, 12-month PE from the grain drying process from emissions units F008 and F010 combined, in tons, calculated in accordance with f)(1)d.; and
 - i. the rolling, 12-month PM₁₀ emissions from the grain drying process from emissions units F008 and F010 combined, in tons, calculated in accordance with f)(1)d.

e) Reporting Requirements

- (1) Unless other arrangements have been approved by the Director, all notifications and reports shall be submitted through the Ohio EPA's eBusiness Center: Air Services online web portal.
- (2) The permittee shall submit quarterly deviation (excursion) reports that identify:
 - a. all deviations (excursions) of the following emission limitations, operational restrictions and/or control device operating parameter limitations that restrict the potential to emit (PTE) of any regulated air pollutant and have been detected by the monitoring, record keeping and/or testing requirements in this permit:
 - i. each day when a fuel other than natural gas was burned in this emissions unit;
 - ii. each rolling, 12-month period when the combined natural gas usage limitation of 387 MMcf for F008 and F010 was exceeded;
 - iii. each rolling, 12-month period when the combined grain throughput limitation of 18,000,000 bushels for F008 and F010 was exceeded;
 - iv. each rolling, 12-month period when the combined PE limitation of 26.21tons from the grain drying process for emissions units F008 and F010 was exceeded;
 - v. each rolling, 12-month period when the combined PM₁₀ emissions limitation of 6.55tons from the grain drying process for emissions units F008 and F010 was exceeded;
 - vi. each rolling, 12-month period when the combined CO limitation of 16.25tons from the combustion of natural gas in emissions units F008 and F010 was exceeded;
 - vii. each rolling, 12-month period when the combined NO_x limitation of 19.35tons from the combustion of natural gas in emissions units F008 and F010 was exceeded;
 - viii. each rolling, 12-month period when the combined VOC limitation of 1.06tons from the combustion of natural gas in emissions units F008 and F010 was exceeded;
 - ix. each rolling, 12-month period when the combined SO₂ limitation of 0.12ton from the combustion of natural gas in emissions units F008 and F010 was exceeded;
 - x. each rolling, 12-month period when the combined PE limitation of 1.47tons from the combustion of natural gas in emissions units F008 and F010 was exceeded; and

- xi. each rolling, 12-month period when the combined PM₁₀ limitation of 1.47 tons from the combustion of natural gas in emissions units F008 and F010 was exceeded.
- b. the probable cause of each deviation (excursion);
- c. any corrective actions that were taken to remedy the deviations (excursions) or prevent future deviations (excursions); and
- d. the magnitude and duration of each deviation (excursion).

If no deviations (excursions) occurred during a calendar quarter, the permittee shall submit a report that states that no deviations (excursions) occurred during the quarter.

The quarterly reports shall be submitted electronically through Ohio EPA Air Services, each year by January 31 (covering October to December), April 30 (covering January to March), July 31 (covering April to June), and October 31 (covering July to September), unless an alternative schedule has been established and approved by the Director (the Central District Office).

- (3) Annual Permit Evaluation Report (PER) forms will be mailed to the permittee at the end of the reporting period specified in the Authorization section of this permit. The permittee shall submit the PER in the form and manner provided by the director by the due date identified in the Authorization section of this permit. The permit evaluation report shall cover a reporting period of no more than twelve-months for each air contaminant source identified in this permit.

f) Testing Requirements

- (1) Compliance with the Emissions Limitations and/or Control Requirements specified in section b) of these terms and conditions shall be determined in accordance with the following methods:

a. Emissions Limitation:

VOC emissions from the combustion of natural gas in this emissions unit shall not exceed 0.18 lbs/hr (as applicable prior to U.S. EPA approving the December 1, 2006, version of OAC rule 3745-31-05 as part of the SIP).

SO₂ emissions from the combustion of natural gas in this emissions unit shall not exceed 0.02 lbs/hr (as applicable prior to U.S. EPA approving the December 1, 2006, version of OAC rule 3745-31-05 as part of the SIP).

PM₁₀ emissions from the combustion of natural gas in this emissions unit shall not exceed 0.24 lb/hr (as applicable prior to U.S. EPA approving the December 1, 2006, version of OAC rule 3745-31-05 as part of the SIP).

Applicable Compliance Method:

Compliance with these limitations may be determined by multiplying the maximum heating capacity (32.8 MMBtu/hr) by the following AP-42 emission factors for each pollutant:

<u>Pollutant</u>	<u>Emissions Factor*</u>
VOC	0.00539 lb/MMBtu
SO ₂	0.000588 lb/MMBtu
PM ₁₀	0.00745 lb/MMBtu

*AP-42, Volume I, Fifth Edition, Section 1.4, "Natural Gas Combustion", Table 1.4-1 and 1.4-2, July 1998.

b. Emissions Limitation:

CO emissions shall not exceed 0.03 lb/ton of grain processed.
 NO_x emissions shall not exceed 0.04 lb/ton grain processed.
 PE shall not exceed 0.11 lb/ton of grain processed.

Applicable Compliance Method:

Compliance with these limitations may be determined by dividing the following maximum hourly emissions rates for each pollutant by the maximum hourly operating rate (84 ton/hr):

<u>Pollutant</u>	<u>Hourly emissions rate</u>
CO	2.70lbs/hr
NO _x	3.21 lbs/hr
PE	0.24 lb/hr

For PE, the results of the calculation above for combustion emissions (0.24 lb PE/hr divided by 84 tons grain processed per hr = 0.003 lb PE/ton grain processed) is added to the manufacturer's supplied performance testing data for process emissions of 0.104 lb PE/ton grain processed (0.003 lb PE/ton grain processed + 0.104 lb PE/ton grain processed = 0.11 lb PE/ton grain processed).

c. Emissions Limitation:

Combined emissions from the combustion of natural gas in grain dryers F008 and F010 shall not exceed the following limitations:

CO emissions shall not exceed 16.25 tons per rolling, 12-month period;
 NO_x emissions shall not exceed 19.35 tons per rolling, 12-month period;
 VOC emissions shall not exceed 1.06 ton per rolling, 12-month period;
 SO₂ emissions shall not exceed 0.12 ton per rolling, 12-month period;
 PE shall not exceed 1.47 ton per rolling, 12-month period; and
 PM₁₀ emissions shall not exceed 1.47 ton per rolling, 12-month period.

Applicable Compliance Method:

Compliance with the rolling, 12-month limitations may be determined by multiplying the actual natural gas usage required in d)(2) by the following emissions factors:

<u>Pollutant</u>	<u>Emissions Factor*</u>
CO	84 lbs/MMcf
NO _x	100 lbs/MMcf
VOC	5.5 lbs/MMcf
SO ₂	0.6 lb/MMcf
PE	5.7 lbs/MMcf
PM ₁₀	5.7 lbs/MMcf

*AP-42, Volume I, Fifth Edition, Section 1.4, "Natural Gas Combustion", Table 1.4-1 and 1.4-2, July 1998.

d. Emissions Limitation:

Combined emissions from the grain drying process associated with emissions units F008 and F010 shall not exceed the following limitations:

PE shall not exceed 26.21 tons per rolling, 12-month period; and
 PM₁₀ shall not exceed 6.55 tons per rolling, 12-month period.

Applicable Compliance Method:

Compliance with the rolling, 12-month limitations may be determined by multiplying the actual grain throughput required in d)(2) by the following emissions factors:

<u>Pollutant</u>	<u>Emissions Factor</u>
PE	0.104 lbs PE/ton*
PM ₁₀	0.026 lbsPM ₁₀ /ton**

*Manufacturer's supplied performance testing data.

**Assumes PM₁₀ represents 25% of PE, consistent with AP-42 guidance.

g) Miscellaneous Requirements

- (1) None.

8. Emissions Unit Group -Truck Receiving: F005,F016,F017,

EU ID	Operations, Property and/or Equipment Description
F005	Grain receiving by truck, dump pit #1
F016	Grain receiving by truck, dump pit #2 (FKA F005)
F017	Grain receiving by truck, dump pit #3 (FKA F005)

a) This permit document constitutes a permit-to-install issued in accordance with ORC 3704.03(F) and a permit-to-operate issued in accordance with ORC 3704.03(G).

(1) For the purpose of a permit-to-install document, the emissions unit terms and conditions identified below are federally enforceable with the exception of those listed below which are enforceable under state law only.

a. None.

(2) For the purpose of a permit-to-operate document, the emissions unit terms and conditions identified below are enforceable under state law only with the exception of those listed below which are federally enforceable.

a. b)(1)c., b)(2)d., c)(1), d)(1), and e)(2)

b) Applicable Emissions Limitations and/or Control Requirements

(1) The specific operation(s), property, and/or equipment that constitute each emissions unit along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures are identified below. Emissions from each unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-31-05(A)(3), as effective 11/30/01	<p>Particulate emissions (PE) from emissions unit F005 shall not exceed 7.01 pounds per hour (lbs/hr).</p> <p>Emissions of particulate matter less than ten microns in diameter (PM₁₀) from emissions unit F005 shall not exceed 1.98 lbs/hr.</p> <p>PE from emissions unit F016 shall not exceed 6.91 lbs/hr.</p> <p>PM₁₀ emissions from emissions unit F016 shall not exceed 1.88 lbs/hr.</p> <p>PM₁₀ emissions from emissions unit F017 shall not exceed 1.68 lbs/hr.</p>

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
		See b)(2)a. and b)(2)b.
b.	OAC rule 3745-31-05(A)(3)(a)(ii), as effective 12/01/06	See b)(2)c.
c.	OAC rule 3745-31-05(D) (Synthetic minor to avoid PSD) (Synthetic minor to avoid Title V) ORC 3704.03(T)	PE from the stack of the baghouse serving this emissions unit shall not exceed 0.005 grains per dry standard cubic feet (gr/dscf). Stack and fugitive PE from emissions units F005, F016, and F017 combined shall not exceed 15.20 tons per rolling, 12-month period. Stack and fugitive PM ₁₀ emissions shall not exceed 9.49 tons per rolling, 12-month period. See b)(2)d. and c)(1)
d.	OAC rule 3745-17-07(A)(1)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to 40 CFR Part 60 Subpart DD.
e.	OAC rule 3745-17-07(B)	See b)(2)e.
f.	OAC rule 3745-17-08(A)(1)	See b)(2)f.
g.	40 CFR Part 60, Subpart DD ORC 3704.03(T)	The grain loading limitation specified by this rule is less stringent than the grain loading limitation established pursuant to OAC rule 3745-31-05(D). Visible emissions from the stack(s) of each baghouse serving this emission unit shall not exceed 0 percent opacity. Visible emissions of fugitive dust from receiving operations associated with this emissions unit shall not exceed 5 percent opacity.
h.	40 CFR Part 60, Subpart A	See b)(2)g.

(2) Additional Terms and Conditions

- a. The permittee has satisfied the Best Available Technology (BAT) requirements pursuant to OAC rule 3745-31-05(A)(3), as effective November 30, 2001, in this permit. On December 1, 2006, paragraph (A)(3) of OAC rule 3745-31-05 was revised to conform to ORC changes effective August 3, 2006 (Senate Bill 265 changes), such that BAT is no longer required by State regulations for emissions units that have the potential to emit less than ten tons per year for pollutants to

which National Ambient Air Quality Standards (NAAQS) apply. However, that rule revision has not yet been approved by U.S. EPA as a revision to Ohio's State Implementation Plan (SIP). Until the SIP revision occurs and U.S. EPA approves the revisions to OAC rule 3745-31-05, the requirement to satisfy BAT still exists as part of the federally-approved SIP for Ohio. When U.S. EPA approves the December 1, 2006, version of OAC rule 3745-31-05, these emissions limitations/control measures will no longer apply.

- b. The hourly PE and PM₁₀ emissions limitations for emissions units **F005** and **F016** and the hourly PM₁₀ emissions limitation for emissions unit **F017** were established to reflect the potential to emit. The monitoring, recordkeeping, reporting, and testing requirements, established in the following terms and conditions are sufficient to demonstrate compliance with these limitations.
- c. The following rule paragraphs will apply when U.S. EPA approves the December 1, 2006, version of OAC rule 3745-31-05 as part of the SIP:
 - i. The BAT requirements under OAC rule 3745-31-05(A)(3) do not apply to the PE and PM₁₀ emissions from emissions unit **F005** and **F016** because the calculated annual emission rate for PE and PM₁₀ is less than 10 tons/year taking into consideration the combined synthetic minor limitation of 75,000,000 bushels per rolling, 12-month period established for emissions units F005, F016, and F017; and
 - ii. The BAT requirements under OAC rule 3745-31-05(A)(3) do not apply to the PM₁₀ emissions from emissions unit **F017** because the calculated annual emission rate for PM₁₀ is less than 10 tons/year taking into consideration the combined synthetic minor limitation of 75,000,000 bushels per rolling, 12-month period established for emissions units F005, F016, and F017.
- d. The emissions from the receiving operations associated with this emissions unit shall be vented to a baghouse(s) at all times when the emissions unit is in operation.
- e. This emissions unit is exempt from the visible particulate fugitive dust emission limitations specified in OAC rule 3745-17-07(B) pursuant to OAC rule 3745-17-07(B)(11)(e).
- f. This emissions unit is not located within areas identified in "Appendix A" of OAC rule 3745-17-08, therefore, the requirements of OAC rule 3745-17-08(B), which requires the installation of reasonably available control measures to prevent fugitive dust, do not apply to this emissions unit pursuant to OAC rule 3745-17-08(A)(1).
- g. The permittee shall demonstrate compliance with the applicable limitations identified in 40 CFR Part 60, Subpart DD in accordance with the General Provisions of the Standards of Performance for New Stationary Sources, 40 CFR Part 60, Subpart A (60.1-60.19).

c) Operational Restrictions

- (1) The maximum, combined grain throughput for emissions units F005, F016, and F017 shall not exceed 75,000,000 bushels (2,100,000 tons) per rolling, 12-month period.

The permittee has existing records of the grain throughput for this emissions unit; therefore, the first year of accumulating monthly grain throughput limitations is not necessary.

d) Monitoring and/or Recordkeeping Requirements

- (1) The permittee shall maintain monthly records of the following information for emissions units F005, F016, and F017:

- a. the grain received, in bushels;
- b. the rolling, 12-month summation of the grain received, in bushels;
- c. the rolling, 12-month summation of the grain received by emissions units F005, F016, and F017 combined, in bushels;
- d. the rolling, 12-month summation of the grain received by emissions units F005, F016, and F017 combined, in tons [the product of d)(1)c. and the conversion factor of 0.028 tons per bushel];
- e. the rolling, 12-month PE from emissions units F005, F016, and F017 combined, in tons, calculated in accordance with f)(1)f.; and
- f. the rolling, 12-month PM₁₀ emissions from emissions units F005, F016, and F017 combined, in tons, calculated in accordance with f)(1)g.

- (2) In order to maintain compliance with the applicable emission limitation(s) contained in this permit, the acceptable ranges established for the pressure drop across the baghouses are identified below:

- a. for dust system 1, the acceptable range is between 0.5 and 6 inches of water;
- b. for dust system 2, the acceptable range is between 0.5 and 6 inches of water; and
- c. for dust system 3, the acceptable range is between 0.5 and 6 inches of water.

- (3) The permittee shall properly install, operate, and maintain equipment to continuously monitor the pressure drop, in inches of water, across the baghouse(s) when the controlled emissions unit(s) is/are in operation, including periods of startup and shutdown. The permittee shall record the pressure drop across the baghouse(s) on a daily basis. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s), with any modifications deemed necessary by the permittee. The acceptable pressure drop shall be based upon the manufacturer's specifications until such time as any required performance testing is conducted and the appropriate range is established to demonstrate compliance.

Whenever the monitored value for the pressure drop deviates from the limit or range established in accordance with this permit, the permittee shall promptly investigate the cause of the deviation. The permittee shall maintain records of the following information for each investigation:

- a. the date and time the deviation began;
- b. the magnitude of the deviation at that time;
- c. the date the investigation was conducted;
- d. the name(s) of the personnel who conducted the investigation; and
- e. the findings and recommendations.

In response to each required investigation to determine the cause of a deviation, the permittee shall take prompt corrective action to bring the operation of the control equipment within the acceptable range specified in this permit, unless the permittee determines that corrective action is not necessary and documents the reasons for that determination and the date and time the deviation ended. The permittee shall maintain records of the following information for each corrective action taken:

- a. a description of the corrective action;
- b. the date corrective action was completed;
- c. the date and time the deviation ended;
- d. the total period of time (in minutes) during which there was a deviation;
- e. the pressure drop readings immediately after the corrective action was implemented; and
- f. the name(s) of the personnel who performed the work.

Investigation and records required by this paragraph do not eliminate the need to comply with the requirements of OAC rule 3745-15-06 if it is determined that a malfunction has occurred.

This range or limit on the pressure drop across the baghouse(s) is effective for the duration of this permit, unless revisions are requested by the permittee and approved in writing by the appropriate Ohio EPA District Office or local air agency. The permittee may request revisions to the permitted limit or range for the pressure drop based upon information obtained during future testing that demonstrate compliance with the allowable particulate emission rate for the controlled emissions unit(s). In addition, approved revisions to the range or limit will not constitute a relaxation of the monitoring requirements of this permit and may be incorporated into this permit by means of an administrative modification.

- (4) The permittee shall perform daily checks, when the emissions unit is in operation, for any visible particulate emissions from the stack(s) of each baghouse serving this

emission unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:

- a. the color of the emissions;
 - b. the total duration of any visible emission incident; and
 - c. any corrective actions taken to eliminate the visible emissions.
- (5) The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any fugitive particulate emissions from the egress points (i.e., building windows, doors, roof monitors, etc.) serving the receiving operations associated with this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
- a. the location and color of the emissions;
 - b. whether the emissions are representative of normal operations;
 - c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
 - d. the total duration of any visible emission incident; and
 - e. any corrective actions taken to minimize or eliminate the visible emissions.

If visible emissions are present, a visible emission incident has occurred. The observer does not have to document the exact start and end times for the visible emission incident under item (d) above or continue the daily check until the incident has ended. The observer may indicate that the visible emission incident was continuous during the observation period (or, if known, continuous during the operation of the emissions unit). With respect to the documentation of corrective actions, the observer may indicate that no corrective actions were taken if the visible emissions were representative of normal operations, or specify the minor corrective actions that were taken to ensure that the emissions unit continued to operate under normal conditions, or specify the corrective actions that were taken to eliminate abnormal visible emissions.

e) Reporting Requirements

- (1) Unless other arrangements have been approved by the Director, all notifications and reports shall be submitted through the Ohio EPA's eBusiness Center: Air Services online web portal.
- (2) The permittee shall submit quarterly deviation (excursion) reports that identify:
 - a. all deviations (excursions) of the following emission limitations, operational restrictions and/or control device operating parameter limitations that restrict the potential to emit (PTE) of any regulated air pollutant and have been detected by the monitoring, record keeping and/or testing requirements in this permit:

- i. each rolling, 12-month period when the combined grain throughput limitation of 75,000,000 bushels for grain received by emissions units F005, F016, and F017 was exceeded;
 - ii. each rolling, 12-month period when the combined PE limitation of 15.20tons for emissions units F005, F016, and F017 was exceeded;
 - iii. each rolling, 12-month period when the combined PM₁₀ emissions limitation of 9.49tons for emissions units F005, F016, and F017 was exceeded;
 - iv. each period of time (start time and date, and end time and date)when the pressure drop across the baghouse(s) was outside of the acceptable range; and
 - v. any period of time (start time and date, and end time and date)when the emissions unit(s) was/were in operation and the process emissions were not vented to the baghouse(s).
- b. the probable cause of each deviation (excursion);
 - c. any corrective actions that were taken to remedy the deviations (excursions) or prevent future deviations (excursions); and
 - d. the magnitude and duration of each deviation (excursion).

If no deviations (excursions) occurred during a calendar quarter, the permittee shall submit a report that states that no deviations (excursions) occurred during the quarter.

The quarterly reports shall be submitted,electronically through Ohio EPA Air Services, each year by January 31 (covering October to December), April 30 (covering January to March), July 31 (covering April to June), and October 31 (covering July to September), unless an alternative schedule has been established and approved by the Director (the Central District Office).

- (3) Annual Permit Evaluation Report (PER)forms will be mailed to the permittee at the end of the reporting period specified in the Authorization section of this permit. The permittee shall submit the PER in the form and manner provided by the director by the due date identified in the Authorization section of this permit. The permit evaluation report shall cover a reporting period of no more than twelve-months for each air contaminant source identified in this permit.

f) Testing Requirements

- (1) Compliance with the Emissions Limitations and/or Control Requirements specified in section b) of these terms and conditions shall be determined in accordance with the following methods:

a. Emissions Limitation:

PE from emissions unit **F005** shall not exceed 7.01 lbs/hr (as applicable prior to U.S. EPA approving the December 1, 2006, version of OAC rule 3745-31-05 as part of the SIP).

Applicable Compliance Method:

Compliance with this limitation may be determined through the following calculations:

Total PE = Fugitive PE + Stack PE; where,

Fugitive PE = $(G_{\max} * E_f) * (1 - \text{CapE})$; where,

G_{\max} = maximum hourly grain throughput (924 tons per hour);

E_f = AP-42# emissions factor (0.035 lb PE/ton grain);

CapE = capture efficiency (80%); and

Stack PE = AOC * EV * 60 * (1 lb/7000 gr); where,

AOC = the maximum allowable outlet concentration (0.005 gr/dscf); and

EV = the maximum expected air flow rate (12,500 acfm)

- AP-42, Volume I, Fifth Edition, Section 9.9, "Grain Processing", Table 9.9.1-1, March 2003.

b. Emissions Limitation:

PM₁₀ from emissions unit **F005** shall not exceed 1.98 lbs/hr (as applicable prior to U.S. EPA approving the December 1, 2006, version of OAC rule 3745-31-05 as part of the SIP).

Applicable Compliance Method:

Compliance with this limitation may be determined through the following calculations:

Total PM₁₀ = Fugitive PM₁₀ + Stack PM₁₀; where,

Fugitive PM₁₀ = $(G_{\max} * E_f) * (1 - \text{CapE})$; where,

G_{\max} = maximum hourly grain throughput (924 tons per hour);

E_f = AP-42# emissions factor (0.0078 lb PM₁₀/ton grain);

CapE = capture efficiency (80%); and

Stack PM₁₀ = AOC * EV * 60 * (1 lb/7000 gr); where,

AOC = the maximum allowable outlet concentration (0.005 gr/dscf); and

EV = the maximum expected air flow rate (12,500 acfm);

- AP-42, Volume I, Fifth Edition, Section 9.9, "Grain Processing", Table 9.9.1-1, March 2003.

c. Emissions Limitation:

PE from emissions unit **F016** shall not exceed 6.91 lbs/hr (as applicable prior to U.S. EPA approving the December 1, 2006, version of OAC rule 3745-31-05 as part of the SIP).

Applicable Compliance Method:

Compliance with this limitation may be determined through the following calculations:

Total PE = Fugitive PE + Stack PE; where,

Fugitive PE = $(G_{\max} * E_f) * (1 - \text{CapE})$; where,

G_{\max} = maximum hourly grain throughput (924 tons per hour);

E_f = AP-42# emissions factor (0.035 lb PE/ton grain);

CapE = capture efficiency (80%); and

Stack PE = $\text{AOC} * \text{EV} * 60 * (1 \text{ lb}/7000 \text{ gr})$; where,

AOC = the maximum allowable outlet concentration (0.005 gr/dscf); and

EV = the maximum expected air flow rate (10,150 acfm)

- AP-42, Volume I, Fifth Edition, Section 9.9, "Grain Processing", Table 9.9.1-1, March 2003.

d. Emissions Limitation:

PM₁₀ from emissions unit **F016** shall not exceed 1.88 lbs/hr (as applicable prior to U.S. EPA approving the December 1, 2006, version of OAC rule 3745-31-05 as part of the SIP).

Applicable Compliance Method:

Compliance with this limitation may be determined through the following calculations:

Total PM₁₀ = Fugitive PM₁₀ + Stack PM₁₀; where,

Fugitive PM₁₀ = $(G_{\max} * E_f) * (1 - \text{CapE})$; where,

G_{\max} = maximum hourly grain throughput (924 tons per hour);

E_f = AP-42# emissions factor (0.0078 lb PM₁₀/ton grain);

CapE = capture efficiency (80%); and

Stack PM₁₀ = $\text{AOC} * \text{EV} * 60 * (1 \text{ lb}/7000 \text{ gr})$; where,

AOC = the maximum allowable outlet concentration (0.005 gr/dscf); and

EV = the maximum expected air flow rate (10,150 acfm);

- AP-42, Volume I, Fifth Edition, Section 9.9, "Grain Processing", Table 9.9.1-1, March 2003.

e. Emissions Limitation:

PM₁₀ from emissions unit **F017** shall not exceed 1.68 lbs/hr (as applicable prior to U.S. EPA approving the December 1, 2006, version of OAC rule 3745-31-05 as part of the SIP).

Applicable Compliance Method:

Compliance with this limitation may be determined through the following calculations:

Total PM₁₀ = Fugitive PM₁₀ + Stack PM₁₀; where,

Fugitive PM₁₀ = (G_{max} * E_f) * (1-CapE); where,

G_{max} = maximum hourly grain throughput (560 tons per hour);

E_f = AP-42# emissions factor (0.0078 lb PM₁₀/ton grain);

CapE = capture efficiency (80%); and

Stack PM₁₀ = AOC * EV * 60 * (1 lb/7000 gr); where,

AOC = the maximum allowable outlet concentration (0.005 gr/dscf); and

EV = the maximum expected air flow rate (19,000 acfm);

- AP-42, Volume I, Fifth Edition, Section 9.9, "Grain Processing", Table 9.9.1-1, March 2003.

f. Emissions Limitation:

Stack and fugitive PE from emissions units F005, F016, and F017 combined shall not exceed 15.20 tons per rolling, 12-month period.

Applicable Compliance Method:

Compliance shall be demonstrated by the record keeping requirements identified in d)(1) and the following equations:

Total PE = F005 fugitive PE + F016 fugitive PE + F017 fugitive PE + F005 stack PE + F016 stack PE + F017 stack PE; where,

F005 fugitive PE = (Tons grain received by F005 * E_f) * (1-CapE); where,

E_f = AP-42# emissions factor (0.035 lb PE/ton grain);

CapE = capture efficiency (80%); and

F016 fugitive PE = (Tons grain received by F016 * E_f) * (1-CapE); where,

E_f = AP-42# emissions factor (0.035 lb PE/ton grain);
CapE = capture efficiency (80%); and

F017 fugitive PE = (Tons grain received by F017 * E_f) * (1-CapE); where,

E_f = AP-42# emissions factor (0.035 lb PE/ton grain);
CapE = capture efficiency (80%); and

F005 stack PE = AOC * EV * 60 * (1 lb/7000 gr) * (8,760 hrs/2,000 lbs); where,

AOC = the actual outlet concentration measured during the most recent compliance demonstration that demonstrated compliance with the 0.005 gr/dscf limitation, in gr/dscf;

EV = the stack exit velocity measured during the most recent compliance demonstration that demonstrated compliance with the 0.005 gr/dscf limitation, in dscf/min; and

F016 stack PE = AOC * EV * 60 * (1 lb/7000 gr) * (8,760 hrs/2,000 lbs); where,

AOC = the actual outlet concentration measured during the most recent compliance demonstration that demonstrated compliance with the 0.005 gr/dscf limitation, in gr/dscf;

EV = the stack exit velocity measured during the most recent compliance demonstration that demonstrated compliance with the 0.005 gr/dscf limitation, in dscf/min; and

F017 stack PE = AOC * EV * 60 * (1 lb/7000 gr) * (8,760 hrs/2,000 lbs); where,

AOC = the actual outlet concentration measured during the most recent compliance demonstration that demonstrated compliance with the 0.005 gr/dscf limitation, in gr/dscf;

EV = the stack exit velocity measured during the most recent compliance demonstration that demonstrated compliance with the 0.005 gr/dscf limitation, in dscf/min; and

- AP-42, Volume I, Fifth Edition, Section 9.9, "Grain Processing", Table 9.9.1-1, March 2003.

g. Emissions Limitation:

Stack and fugitive PM₁₀ from emissions units F005, F016, and F017 combined shall not exceed 9.49 tons per rolling, 12-month period.

Applicable Compliance Method:

Compliance shall be demonstrated by the record keeping requirements identified in d)(1) and the following equations:

Total PM₁₀ = F005 fugitive PM₁₀ + F016 fugitive PM₁₀ + F017 fugitive PM₁₀ + F005 stack PM₁₀ + F016 stack PM₁₀ + F017 stack PM₁₀; where,

F005 fugitive PM₁₀ = (Tons grain received by F005 * E_f) * (1-CapE); where,

E_f = AP-42# emissions factor (0.0078 lb PM₁₀/ton grain);
CapE = capture efficiency (80%); and

F016 fugitive PM₁₀ = (Tons grain received by F016 * E_f) * (1-CapE); where,

E_f = AP-42# emissions factor (0.0078 lb PM₁₀/ton grain);
CapE = capture efficiency (80%); and

F017 fugitive PM₁₀ = (Tons grain received by F017 * E_f) * (1-CapE); where,

E_f = AP-42# emissions factor (0.0078 lb PM₁₀/ton grain);
CapE = capture efficiency (80%); and

F005 stack PM₁₀ = AOC * EV * 60 * (1 lb/7000 gr) * (8,760 hrs/2,000 lbs); where,

AOC = the actual outlet concentration measured during the most recent compliance demonstration that demonstrated compliance with the 0.005 gr/dscf limitation, in gr/dscf;

EV = the stack exit velocity measured during the most recent compliance demonstration that demonstrated compliance with the 0.005 gr/dscf limitation, in dscf/min; and

F016 stack PM₁₀ = AOC * EV * 60 * (1 lb/7000 gr) * (8,760 hrs/2,000 lbs); where,

AOC = the actual outlet concentration measured during the most recent compliance demonstration that demonstrated compliance with the 0.005 gr/dscf limitation, in gr/dscf;

EV = the stack exit velocity measured during the most recent compliance demonstration that demonstrated compliance with the 0.005 gr/dscf limitation, in dscf/min; and

F017 stack PM₁₀ = AOC * EV * 60 * (1 lb/7000 gr) * (8,760 hrs/2,000 lbs); where,

AOC = the actual outlet concentration measured during the most recent compliance demonstration that demonstrated compliance with the 0.005 gr/dscf limitation, in gr/dscf;

EV = the stack exit velocity measured during the most recent compliance demonstration that demonstrated compliance with the 0.005 gr/dscf limitation, in dscf/min; and

- AP-42, Volume I, Fifth Edition, Section 9.9, "Grain Processing", Table 9.9.1-1, March 2003.

h. Emissions Limitation:

PE from the stack of the baghouse serving this emissions unit shall not exceed 0.005gr/dscf.

Applicable Compliance Method:

If required, compliance with the grain loading limitation shall be demonstrated according to 40 CFR Part 60, Appendix A, method 5.

i. Emissions Limitation:

Visible emissions from the stack(s) of each baghouse serving this emission unit shall not exceed 0 percent opacity.

Applicable Compliance Method:

If required, compliance with the visible emission limitation for the fugitive dust from receiving operations associated with this emissions unit shall be determined through visible emission observations performed in accordance with U.S. EPA Method 9.

j. Emissions Limitation:

Visible emissions of fugitive dust from receiving operations associated with this emissions unit shall not exceed 5 percent opacity.

Applicable Compliance Method:

If required, compliance with the visible emission limitation for the fugitive dust from receiving operations associated with this emissions unit shall be determined through visible emission observations performed in accordance with U.S. EPA Method 9.

g) Miscellaneous Requirements

- (1) None.