



6/6/2014

Certified Mail

Max Perry
Heritage Cooperative
11177 Twp Rd 133
PO BOX 68
West Mansfield, OH 43358

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

RE: FINALAIR POLLUTION PERMIT-TO-INSTALL AND OPERATE

Facility ID: 0388010143
Permit Number: P0115909
Permit Type: Initial Installation
County: Wyandot

Dear Permit Holder:

Enclosed please find a final Ohio Environmental Protection Agency (EPA) 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. In this letter you will find the information on the following topics:

- **How to appeal this permit**
- **How to save money, reduce pollution and reduce energy consumption**
- **How to give us feedback on your permitting experience**
- **How to get an electronic copy of your permit**

How to appeal this permit

The issuance of this PTIO 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
77 South High Street, 17th Floor
Columbus, OH 43215

How to save money, reduce pollution and reduce energy consumption

The Ohio EPA is encouraging companies to investigate pollution prevention and energy conservation. Not only will this reduce pollution and energy consumption, but it can also save you money. If you would like to learn ways you can save money while protecting the environment, please contact our Office of Compliance Assistance and Pollution Prevention at (614) 644-3469. Additionally, all or a portion of the capital expenditures related to installing air pollution control equipment under this permit may be eligible for financing and State tax exemptions through the Ohio Air Quality Development Authority (OAQDA) under Ohio Revised Code Section 3706. For more information, see the OAQDA website: www.ohioairquality.org/clean_air

How to give us feedback on your permitting experience

Please complete a survey at www.epa.ohio.gov/survey.aspx and give us feedback on your permitting experience. We value your opinion.

How to get an electronic copy of your permit

This permit can be accessed electronically via the eBusiness Center: Air Services in Microsoft Word format or in Adobe PDF on the Division of Air Pollution Control (DAPC) Web page, www.epa.ohio.gov/dapc by clicking the "Search for Permits" link under the Permitting topic on the Programs tab.

If you have any questions, please contact Ohio EPA DAPC, Northwest District Office at (419)352-8461 or the Office of Compliance Assistance and Pollution Prevention at (614) 644-3469.

Sincerely,

Michael W. Ahern

Michael W. Ahern, Manager

Permit Issuance and Data Management Section, DAPC

Cc: Ohio EPA-NWDO



FINAL

**Division of Air Pollution Control
Permit-to-Install and Operate
for
Heritage Cooperative**

Facility ID:	0388010143
Permit Number:	P0115909
Permit Type:	Initial Installation
Issued:	6/6/2014
Effective:	6/6/2014
Expiration:	6/6/2024



Division of Air Pollution Control
Permit-to-Install and Operate
for
Heritage Cooperative

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Final Permit-to-Install and Operate
Heritage Cooperative
Permit Number: P0115909
Facility ID: 0388010143
Effective Date: 6/6/2014

Authorization

Facility ID: 0388010143
Application Number(s): A0049005
Permit Number: P0115909
Permit Description: Initial installation PTIO for grain receiving, transfer/conveying, screening/cleaning, drying, and storage/handling operations for a grain terminal.
Permit Type: Initial Installation
Permit Fee: \$2,900.00
Issue Date: 6/6/2014
Effective Date: 6/6/2014
Expiration Date: 6/6/2024
Permit Evaluation Report (PER) Annual Date: Jan 1 - Dec 31, Due Feb 15

This document constitutes issuance to:

Heritage Cooperative
520 W WYANDOT AVE
Upper Sandusky, OH 43351

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

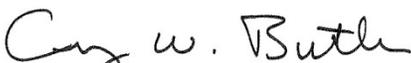
Ohio Environmental Protection Agency (EPA) District Office or local air agency responsible for processing and administering your permit:

Ohio EPA DAPC, Northwest District Office
347 North Dunbridge Road
Bowling Green, OH 43402
(419)352-8461

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


Craig W. Butler
Director



Authorization (continued)

Permit Number: P0115909
Permit Description: Initial installation PTIO for grain receiving, transfer/conveying, screening/cleaning, drying, and storage/handling operations for a grain terminal.

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

Emissions Unit ID:	F001
Company Equipment ID:	Grain receiving, transfer & conveying
Superseded Permit Number:	P0032063
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	F002
Company Equipment ID:	Dryer
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	F003
Company Equipment ID:	Loadout Operations
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	F004
Company Equipment ID:	Grain Pile
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable



Final Permit-to-Install and Operate
Heritage Cooperative
Permit Number: P0115909
Facility ID: 0388010143
Effective Date: 6/6/2014

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. For facilities that are permitted as synthetic minor sources, the fee schedule is adjusted annually for inflation. 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 of this permit 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 [DO/LAA] 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 submitting 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 emission 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.



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.



Final Permit-to-Install and Operate
Heritage Cooperative
Permit Number: P0115909
Facility ID: 0388010143
Effective Date: 6/6/2014

B. Facility-Wide Terms and Conditions



Final Permit-to-Install and Operate

Heritage Cooperative

Permit Number: P0115909

Facility ID: 0388010143

Effective Date: 6/6/2014

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



Final Permit-to-Install and Operate
Heritage Cooperative
Permit Number: P0115909
Facility ID: 0388010143
Effective Date: 6/6/2014

C. Emissions Unit Terms and Conditions



1. F001, Grain receiving, transfer & conveying

Operations, Property and/or Equipment Description:

Grain receiving, transfer/conveying, and screening/cleaning

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.

b)(1)b.

(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. None

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(F)	28.93 tons per year of fugitive particulate emissions (PE); 11.34 tons per year of fugitive particulate matter 10 microns or less in size (PM ₁₀); Visible fugitive emission limitations, operational restrictions, and control measures (see b)(2)a., c)(1), and c)(2)
b.	ORC 3704.03(T)	See b)(2)b.
c.	40 CFR Part 60 Subpart DD	See b)(2)d.
d.	OAC rule 3745-17-07(B)	See b)(2)e.
e.	OAC rule 3745-17-08(B)	See b)(2)f.

(2) Additional Terms and Conditions

a. This permit establishes legally and practically enforceable emission limitations. The legally and practically enforceable emission limitations are voluntary restrictions established under OAC rule 3745-31-05(F) and are based on the



operational restriction contained in section c)(1) and the application of control measures as specified in c)(2):

- i. fugitive emission limitation of 28.93 tons of PE/year from grain receiving, transferring/conveying, and screening/cleaning operations;
- ii. fugitive emission limitation of 11.34 tons of PM₁₀/year from grain receiving, transferring/conveying, and screening/cleaning operations;
- iii. visible fugitive PE from screening/cleaning operation shall not exceed 20% opacity as a three-minute average.
- iv. visible fugitive PE from grain receiving shall not exceed 20% opacity as a three-minute average from the following:
 - (a) Old West Side Pit;
 - (b) North Pit; and
 - (c) C&O Pit;
- v. visible fugitive PE from grain receiving at the "West Pit" shall not exceed 5% opacity as a six-minute*;
- vi. visible fugitive emissions from transferring/conveying, and screening/cleaning shall not exceed 0% opacity as a six-minute average*.

*It should be noted the opacity limitations established by OAC rule 3745-31-05(F) are equivalent to the standards required by 40 CFR Part 60 Subpart DD for affected facilities. (see b)(2)d.)

- b. The control measures contained in c)(2) and established under OAC rule 3745-31-05(F) fulfill the Best Available Technology requirements of OAC rule 3704.03(T).
- c. The BAT requirements under OAC rule 3745-31-05(A)(3) are not applicable to the particulate emissions emitted from this emissions unit. BAT is only applicable to emissions of an air contaminant or precursor of an air contaminant for which a national ambient air quality standard (NAAQS) has been adopted under the Clean Air Act. Particulate emissions (also referred to as total suspended particulate or particulate matter) are an air contaminant that does not involve an established NAAQS.
- d. The provisions of 40 CFR Part 60 Subpart DD apply to the following operations (identified as affected facilities in 40 CFR 60.300) of this emissions unit based on construction/modification date of the affected facility:
 - i. West Pit (individual truck unloading station) – visible fugitive particulate emissions shall not exceed 5% opacity as a six-minute average*; and



- ii. visible fugitive particulate emissions from the following transferring/conveying equipment (grain handling operations) shall not exceed 0% opacity as a six-minute average*:

Facility Equipment Name
Dry conveyor top
Dry conveyor bottom
78 bottom screw
Flat jump screw
Flat east unload
Flat top east
Flat top west
Mass flow
Scale screw
Slip house top
Pile conveyor
Pile jump screw
19-20 conveyor
Slip house bottom
21-22 conveyor
700 Bottom
Hi-Roller bridge
En-masse conveyor
West bottom conveyor
20 load conveyor

*The above visible fugitive particulate emission limitations established by 40 CFR 60.302 are equivalent to the opacity limitations established by OAC rule 3745-31-05(F).



- e. This emissions unit is exempt from the visible particulate emission limitations specified in OAC rule 3745-17-07(B), pursuant to OAC rule 3745-17-07(B)(11)(e).
- f. This facility is not located within an "Appendix A" area as identified in OAC rule 3745-17-08. Therefore, pursuant to OAC rule 3745-17-08(A), this emissions unit is exempt from the requirements of OAC rule 3745-17-08(B).

c) **Operational Restrictions**

- (1) The maximum annual grain received shall not exceed 249,900 tons (the operational restriction has been included in this permit to represent the maximum potential throughput).
- (2) The following operational restrictions have been included in this permit for the purpose of establishing legally and practically enforceable requirements [see b)(2)a.]:
 - a. mineral oil shall be applied to all grain received (i.e. applied at all receiving pits);
 - b. transferring/conveying operations shall be totally enclosed;
 - c. screen/cleaning operations shall be totally enclosed;
 - d. use of receiving pit louvers for West Pit;

d) **Monitoring and/or Recordkeeping Requirements**

- (1) The permittee shall maintain monthly records of the amount of throughput for grain truck receiving operations, in tons per month and total tons, to date, for the calendar year:
- (2) The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible fugitive particulate emissions from the following operations. The presence or absence of any visible fugitive 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. for the totally enclosed transferring/conveying operations:
 - i. the location and color of the emissions;
 - ii. the total duration of any visible emission incident; and
 - iii. any corrective actions taken to eliminate the visible emissions.
 - b. for each individual grain truck receiving operation (Old West Pit, North Pit, C&O Pit, and West Pit) and (c.) totally enclosed screening/cleaning operations:
 - i. the location and color of the emissions;
 - ii. whether the emissions are representative of normal operations;
 - iii. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
 - iv. the total duration of any visible emission incident; and



- v. 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 (2)b.iv.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) The permittee shall submit an annual Permit Evaluation Report (PER) to the Northwest District Office by the due date specified in the Authorization section of this permit. The PER shall cover a reporting period of no more than 12 months for each air contaminant source identified in this permit.
- (2) The reports may be submitted electronically through Ohio EPA's e-Business Center: Air Services online web portal; or they may be mailed as a hard copy to the Northwest District Office.
- (3) The permittee shall additionally identify the following information in the annual PER in accordance with the monitoring requirements in section d)(2):
 - a. for transferring/conveying operations:
 - i. all days during which any visible fugitive particulate emissions were observed from the totally enclosed operations; and
 - ii. any corrective actions taken to eliminate the visible fugitive particulate emissions.
 - b. for each individual grain truck receiving operation (Old West Pit, North Pit, C&O Pit, and West Pit) and (c.) screening/cleaning operation:
 - i. all days during which any visible fugitive particulate emissions were observed (identify each specific grain receiving operations that experienced visible emissions); and
 - ii. any corrective actions taken to minimize or eliminate the visible fugitive particulate emissions.

The above information shall be provided as an attachment to the PER. If there were no days and/or corrective actions to identify as required above, the permittee shall indicate within the "Additional Information and Corrections" section of the PER that no visible emissions were observed and no corrective actions were taken.



- (4) Pursuant to the New Source Performance Standards (NSPS), the permittee is hereby advised of the requirements to report the following at the appropriate times:
- a. construction date (no later than 30 days after such date);
 - b. actual start-up date (within 15 days after such date); and
 - c. date of performance testing (if required, at least 30 days prior to testing).

Reports are to be sent to:

Ohio EPA, Northwest District Office
347 North Dunbridge Road
Bowling Green, OH 43402

f) Testing Requirements

- (1) The permittee shall conduct, or have conducted, emissions testing for the equipment and operations identified in b)(2)d. as “affected facilities” subject to the provisions of 40 CFR Part 60, Subpart DD. Testing shall be conducted in accordance with the following requirements:
- a. The emission testing shall be conducted during the fall grain harvest season of 2014 for purposes of meeting the maximum source operating rate required in f)(1)d. below. Testing timeframe(s) specified may be amended or waived for cause upon prior request of, and written approval of Ohio EPA.
 - b. The emissions testing shall be conducted to demonstrate compliance with the allowable visible emission limitations.
 - c. The following test method shall be employed to demonstrate compliance with the allowable visible emission rates:

Method 9 of 40 CFR Part 60, Appendix A
 - d. The test(s) shall be conducted at a Maximum Source Operation Rate (MSOR), unless otherwise specified or approved by the appropriate Ohio EPA District Office or local air agency. MSOR is defined as the condition that is most likely to challenge the emission control measures with regards to meeting the applicable emission standard(s). Although this generally consists of operating the emissions unit at its maximum material input/production rates and results in the highest emission rate of the tested pollutant, there may be circumstances where a lower emissions loading is deemed the most challenging control scenario. Failure to test at the MSOR is justification for not accepting the test results as a demonstration for compliance.
 - e. Not later than 30 days prior to the proposed test dates(s), the permittee shall submit an “Intent to Test” notification to the Northwest District Office. The “Intent to Test” notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and dates(s) of the test(s), and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in



the Northwest District Office's refusal to accept the results of the emissions test(s).

- f. Personnel from the appropriate Ohio EPA District Office or local air agency shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.
 - g. A comprehensive written report on the results of the emission test(s) shall be signed by the person or persons responsible for the tests and submitted to the Northwest District Office within 30 days following completion of the test(s). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the Northwest District Office.
- (2) Compliance with the emission limitation in section b)(1) of these terms and conditions shall be determined in accordance with the following method:

- a. Emission Limitation
28.93 tons of fugitive PE/year
11.34 tons of fugitive PM₁₀/year

Applicable Compliance Method

The annual PE and PM₁₀ emission limitations were developed by summing the results of the following emission calculations:

Fugitive PE

Receiving: multiply 0.18 lb of PE/ton (AP-42 Table 9.9.1-1 [3/03]) by a maximum annual throughput of 249,900 tons, then divide by 2000 lbs = 22.49 tons of fugitive PE/year

Transferring/Conveying: multiply 0.061 lb of PE/ton (AP-42 Table 9.9.1-1 [3/03]) by a maximum annual throughput of 249,900 tons, a control efficiency of 80%, then divide by 2000 lbs, and multiply by 3 turnovers of the amount of grain received = 4.57 tons of fugitive PE/year

Screening/Cleaning: multiply 0.075lb of PE/ton* (AP-42 Table 9.9.1-1[3/03]) by a maximum annual throughput of 249,900 tons, a control efficiency of 80%, then divide by 2000 lbs = 1.87 tons of fugitive PE/year

Fugitive PM₁₀

Receiving: multiply 0.059 lb of PM₁₀/ton (AP-42 Table 9.9.1-1 [3/03]) by a maximum annual throughput of 249,900 tons, then divide by 2000 lbs = 7.37 tons of fugitive PM₁₀/year

Transferring/Conveying: multiply 0.034 lb of PM₁₀/ton (AP-42 Table 9.9.1-1 [3/03]) by a maximum annual throughput of 249,900 tons, and apply a control efficiency of 80%, then divide by 2000 lbs, and multiply by 3 turnovers of the amount of grain received = 2.55 tons of fugitive PM₁₀/year



Screening/Cleaning: multiply 0.019 lb of PM₁₀/ton (AP-42 Table 9.9.1-1 [3/03]) by a maximum annual throughput of 249,900 tons, and apply a control efficiency of 80%, then divide by 2000 lbs, and multiply by 3 turnovers of the amount of grain received = 1.42 tons of fugitive PM₁₀/year

Therefore, provided compliance is shown with the annual grain throughput and the requirement to apply mineral oil, compliance with the annual emission limitations shall also be demonstrated.

b. Emission Limitations

Visible fugitive PE shall not exceed the following limits:

0% opacity as a six-minute average from transferring/conveying operations

5% opacity as a six-minute average from grain receiving for "West Pit"

Applicable Compliance Method

If required, compliance shall be determined in accordance with 40 CFR Part 60, Appendix A, Method 9.

c. Emission Limitations

Visible fugitive PE shall not exceed the following limits:

i. 20% opacity as a three-minute average from grain receiving for "Old West Side Pit"

ii. 20% opacity as a three-minute average from grain receiving for "North Pit"

iii. 20% opacity as a three-minute average from grain receiving for "C&O Pit"

iv. 20% opacity as a three-minute average from screening/cleaning operation

Applicable Compliance Method

If required, compliance shall be determined in accordance with 40 CFR Part 60, Appendix A, Method 9 and the modifications listed in paragraphs (B)(3)(a) and (B)(3)(b) of OAC rule 3745-17-03.

g) **Miscellaneous Requirements**

- (1) The application and enforcement of the provisions of the New Source Performance Standards (NSPS), as promulgated by the United States Environmental Protection Agency, 40 CFR Part 60, are delegated to the Ohio Environmental Protection Agency. The requirements of 40 CFR Part 60 are also federally enforceable.



2. F002, Dryer

Operations, Property and/or Equipment Description:

Grain Dryer

- 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. None
- 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 11/30/2001	<u>Emissions from Drying of Grain</u> 5.50 tons of fugitive particulate emissions/year 1.37 tons of fugitive particulate matter 10 microns or less in size (PM ₁₀)/year Visible fugitive particulate emissions shall not exceed 10% opacity as a three-minute average See b)(2)a. <u>Natural Gas Combustion Emissions</u> 11.71 tons of nitrogen oxide(NOx)/year 9.84tons of carbon monoxide (CO)/year
b.	OAC rule 3745-17-07(B)	See b)(2)c.
c.	OAC rule 3745-17-08(B)	See b)(2)b.



(2) Additional Terms and Conditions

- a. The "Best Available Technology" (BAT) control requirements for this emissions unit have been determined to be the use of column plate perforations with a diameter equal to or less than 0.094 inches and the use of mineral oil. Mineral oil is required to be applied to all grain received at the facility (see emissions unit F001).

BAT requirements also include compliance with the terms and conditions of this permit.

Sulfur dioxide (SO₂) and volatile organic compound (VOC) emissions from this emissions unit are negligible; therefore, no BAT requirements or emission limitations for these pollutants have been established in this permit.

- b. The permittee is not located within an "Appendix A" area as identified in OAC rule 3745-17-08. Therefore, pursuant to OAC rule 3745-17-08(A), this emissions unit is exempt from the requirements of OAC rule 3745-17-08(B).
- c. This emissions unit is exempt from the visible particulate emission limitations specified in OAC rule 3745-17-07(B) pursuant to OAC rule 3745-17-07(B)(11)(e).
- d. The provisions of 40 CFR, Part 60, Subpart DD do not apply to this emission unit based on the installation date of the emission unit.

c) Operational Restrictions

- (1) The maximum annual grain throughput for this emissions unit shall not exceed 249,900 tons.

d) Monitoring and/or Recordkeeping Requirements

- (1) The permittee shall maintain monthly records of the amount of grain throughput for this emissions unit (in tons per month and total tons to date, for the calendar year).

e) Reporting Requirements

- (1) The permittee shall submit an annual Permit Evaluation Report (PER) to the Ohio EPA District Office or Local Air Agency 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.
- (2) The reports required by this permit may be submitted through the Ohio EPA's eBusiness Center: Air Services online web portal; or they may be mailed as a hard copy to the appropriate district office or local air agency.

f) Testing Requirements

- (1) Compliance with the emission limitation in section b)(1) of these terms and conditions shall be determined in accordance with the following method:



Emission Limitation

5.50 tons fugitive PE/year from the grain dryer

Applicable Compliance Method

The annual fugitive PE limitation was determined by multiplying the maximum annual grain throughput of 249,900 tons by an emission factor of 0.22 lb of PE/ton of grain (AP-42 Table 9.9.1-1 [3/03]) and applying a control efficiency of 80%, then dividing by 2000 lbs. Therefore, provided compliance is shown with the annual grain throughput and the requirement to apply mineral oil, compliance with the annual emission limitation shall also be demonstrated.

Emission Limitation

1.37 tons fugitive PM₁₀/year from the grain dryer

Applicable Compliance Method

The annual fugitive PM10 limitation was determined by multiplying the maximum annual grain throughput of 249,900 tons by an emission factor of 0.055 lb of PM10/ton of grain (AP-42 Table 9.9.1-1 [3/03]) and applying a control efficiency of 80%, then dividing by 2000 lbs. Therefore, provided compliance is shown with the annual grain throughput and the requirement to apply mineral oil, compliance with the annual emission limitation shall also be demonstrated.

Emission Limitation

Visible fugitive particulate emissions shall not exceed 10% opacity as a three-minute average

Applicable Compliance Method

If required, compliance shall be determined in accordance with 40 CFR Part 60, Appendix A, Method 9 and the modifications listed in paragraphs (B)(3)(a) and (B)(3)(b) of OAC rule 3745-17-03.

Emission Limitation

11.71 tons of NO_x/year from natural gas combustion

Applicable Compliance Method

Compliance with the annual NO_x limitation was determined by multiplying the maximum heat input of 27.28mmBtu/hour by a conversion factor of 1 ft³/1020 Btu, an emission factor of 100 lbs of NO_x/mmft³ of natural gas, 8760 hrs/yr and 1 ton/ 2000 lbs (AP-42 Section 1.4-2 [7/98]).

Emission Limitation

9.84 tons of CO/year from natural gas combustion

Applicable Compliance Method

Compliance with the annual CO limitation was determined by multiplying the maximum heat input of 27.28mmBtu/hour by a conversion factor of 1 ft³/1020 Btu and an emission factor of 84 lbs of CO/mmft³ of natural gas, 8760 hrs/yr and 1 ton/2000 lbs (AP-42 Section 1.4-1 [7/98]).



Final Permit-to-Install and Operate

Heritage Cooperative

Permit Number: P0115909

Facility ID: 0388010143

Effective Date: 6/6/2014

g) Miscellaneous Requirements

(1) None.



3. F003, Loadout Operations

Operations, Property and/or Equipment Description:

Grain Shipping Operations (Truck & Railcar 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. None.

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 11/30/2001	2.15 tons of fugitive particulate emissions/year 0.72 ton of fugitive particulate matter 10 microns or less in size (PM ₁₀)/year Visible fugitive particulate emissions shall not exceed 20% opacity, as a three-minute average from truck and rail loading operations
b.	OAC rule 3745-17-08(B)	See b)(2)b.
c.	OAC rule 3745-17-07(B)	See b)(2)c.

(2) Additional Terms and Conditions

a. The “Best Available Technology” (BAT) control requirements for this emissions unit has been determined to be the use of mineral oil. Mineral oil is required to be applied to all grain received at the facility (see emissions unit F001).



BAT requirements also include compliance with the terms and conditions of this permit.

- b. The permittee is not located within an "Appendix A" area as identified in OAC rule 3745-17-08. Therefore, pursuant to OAC rule 3745-17-08(A), this emissions unit is exempt from the requirements of OAC rule 3745-17-08.
- c. This emissions unit is exempt from the visible particulate emission limitation specified in OAC rule 3745-17-07(B) pursuant to OAC rule 3745-17-07(B)(11)(e).
- d. The provisions of 40 CFR, Part 60, Subpart DD apply to this emission unit based on the installation date of the emission unit.

c) Operational Restrictions

- (1) The maximum annual grain throughput for this emissions unit shall not exceed 249,900 tons.

d) Monitoring and/or Recordkeeping Requirements

- (1) The permittee shall maintain monthly records of the amount of grain throughput for this emissions unit (in tons per month and total tons to date, for the calendar year).
- (2) The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from truck and/or railcar loading operations. The presence or absence of any visible fugitive 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)(2)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) 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.
- (2) The permittee shall additionally identify the following information in the annual PER in accordance with the monitoring requirements in section d)(2):
 - a. all days during which any visible fugitive particulate emissions were observed from truck and/or railcar loading operations; and
 - b. any corrective actions taken to eliminate the visible fugitive particulate emissions.

The above information shall be provided as an attachment to the PER. If there were no days and/or corrective actions to identify as required above, the permittee shall indicate within the "Additional Information and Corrections" section of the PER that no visible emissions were observed and no corrective actions were taken.

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. Emission Limitation:
2.15 tons fugitive PE/year.

Applicable Compliance Method:

The annual fugitive PE limitation was developed by multiplying the maximum annual grain throughput of 249,900 tons by an emission factor of 0.086 lb PE/ton grain from AP-42, Table 9.9.1-1 (revised 03/03) and applying the control efficiency of 80%, then dividing by 2000 lbs/ton. Therefore, provided compliance is shown with the annual grain throughput and the requirement to apply mineral oil, compliance with the annual emission limitation shall also be demonstrated.

*Annual emissions were based on the worst-case scenario as represented by all throughput being loaded by truck

- b. Emission Limitation
0.72 ton fugitive PM₁₀/year.

Applicable Compliance Method

The annual fugitive PE limitation was developed by multiplying the maximum annual grain throughput of 249,900 tons by an emission factor of 0.029 lb PM₁₀/ton grain from AP-42, Table 9.9.1-1 (revised 03/03) and applying the control efficiency of 80%, then dividing by 2000 lbs/ton. Therefore, provided compliance is shown with the annual grain throughput and the requirement to



apply mineral oil, compliance with the annual emission limitation shall also be demonstrated.

*Annual emissions were based on the worst-case scenario as represented by all throughput being loaded by truck

c. Emission Limitation

Visible fugitive particulate emissions shall not exceed 20% opacity as a 3-minute average from truck and railcar loading operations.

Applicable Compliance Method

If required, compliance shall be determined in accordance with 40 CFR Part 60, Appendix A, Method 9 and the modifications listed in paragraphs (B)(3)(a) and (B)(3)(b) of OAC rule 3745-17-03.

g) Miscellaneous Requirements

(1) None.



4. F004, Grain Pile

Operations, Property and/or Equipment Description:

Outdoor Grain Storage and Handling

- 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. b)(1)c.
 - (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. None.
- 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(F)	0.80 ton fugitive particulate emissions(PE)/year 0.37 ton fugitive particulate matter less than 10 microns in size (PM ₁₀)/year Visible fugitive PE shall not exceed 20% opacity as a three-minute average. See b)(2)a. and c)(1)
b.	OAC rule 3745-31-05(A)(3), as effective 11/30/01	See b)(2)b.
c.	OAC rule 3745-31-05(A)(3), as effective 12/01/06	See b)(2)d.
d.	OAC rule 3745-17-07(B)	See b)(2)e.
e.	OAC rule 3745-17-08(B)	See b)(2)f.



(2) Additional Terms and Conditions

- a. This permit establishes legally and practically enforceable emission limitations. The legally and practically enforceable emission limitations are voluntary restrictions established under OAC rule 3745-31-05(F) and are based on the operational restriction contained in section c)(1) and the application of control measures as specified in c)(2):
 - i. 0.45 ton fugitive PE/year;
 - ii. 0.24 ton fugitive PM₁₀/year;
 - iii. Visible PE shall not exceed 20% opacity, as a three-minute average

Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.

- b. Best Available Technology (BAT) requirements under OAC rule 3745-31-05(A)(3), as effective 11/30/01, have been determined to be compliance with the operational restriction in c)(1).
- c. The permittee has satisfied the BAT requirements pursuant to OAC paragraph 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 (S.B. 265 changes), such that BAT is no longer required by State regulations for NAAQS pollutants less than ten tons per year. However, that rule revision has not yet been approved by U.S. EPA as a revision to Ohio's State Implementation Plan (SIP). Therefore, until the SIP revision occurs and the 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. Once U.S. EPA approves the December 1, 2006 version of 3745-31-05, then these emission limits/control measures no longer apply.

It should be noted that the requirements established pursuant to OAC rule 3745-31-05(F) will remain applicable after the above SIP revisions are approved by U.S. EPA.

- d. This rule paragraph applies once U.S. EPA approves the December 1, 2006 version of OAC rule 3745-31-05 as part of the State Implementation Plan.

BAT requirements under OAC rule 3745-31-05(A)(3)(a), as effective December 1, 2006, do not apply to the PM₁₀ emissions from this air contaminant source since the controlled PTE is less than 10 tons per year taking into consideration practically and legally enforceable voluntary restrictions established under OAC rule 3745-31-05(F) in this permit.

The BAT requirements under OAC rule 3745-31-05(A)(3) are not applicable to the particulate emissions emitted from this emissions unit. BAT is only applicable to emissions of an air contaminant or precursor of an air contaminant for which a national ambient air quality standard (NAAQS) has been adopted under the



Clean Air Act. Particulate emissions (also referred to as total suspended particulate or particulate matter) are an air contaminant that does not involve an established NAAQS.

- e. This emissions unit is exempt from the visible particulate emission limitations specified in OAC rule 3745-17-07(B) pursuant to OAC rule 3745-17-07(B)(11)(e).
- f. The permittee is not located within an "Appendix A" area as identified in OAC rule 3745-17-08. Therefore, pursuant to OAC rule 3745-17-08(A), this emissions unit is exempt from the requirements of OAC rule 3745-17-08(B).

c) **Operational Restrictions**

- (1) The following operational restrictions have been included in this permit for the purpose of establishing the following legally and practically enforceable requirements [See b)(2)a.]:
 - a. The maximum annual grain throughput for emissions unit F004 shall not exceed 8,400 tons.
 - b. Use of mineral oil - mineral oil is required to be applied to all grain received at the facility (see emissions unit F001).

d) **Monitoring and/or Recordkeeping Requirements**

- (1) The permittee shall maintain monthly records of the amount of grain throughput for this emissions unit (in tons per month and total tons, to date for the calendar year).
- (2) The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible fugitive particulate emissions from the grain storage and 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 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)(2)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) 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.
- (2) The permittee shall additionally identify the following information in the annual PER in accordance with the monitoring requirements in section d)(2):
 - a. all days during which any visible fugitive particulate emissions were observed from grain storage and handling operations; and
 - b. any corrective actions taken to eliminate the visible fugitive particulate emissions.

The above information shall be provided as an attachment to the PER. If there were no days and/or corrective actions to identify as required above, the permittee shall indicate within the "Additional Information and Corrections" section of the PER that no visible emissions were observed and no corrective actions were taken.

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. Emission Limitation
0.80 ton fugitive PE/year
0.37 ton fugitive PM₁₀/year

Applicable Compliance Method

The annual PE and PM₁₀ emission limitations were developed by summing the results of the following emission calculations:

Fugitive PE

Load-in: multiply 0.18 lb PM₁₀/ton (AP-42 Table 9.9.1 [3/03]) by a maximum annual throughput of 8,400 tons, a control efficiency of 80%, then divide by 2000 lbs = 0.15 ton of fugitive PE/year

Transferring/Conveying: multiply 0.061 lb PM₁₀/ton (AP-42 Table 9.9.1 [3/03]) by a maximum annual throughput of 8,400 tons, a control efficiency of 80%, then divide by 2000 lbs = 0.05 ton of fugitive PE/year



Load-out: multiply 0.086 lb PM₁₀/ton (AP-42 Table 9.9.1 [3/03]) by a maximum annual throughput of 8,400 tons, a control efficiency of 80%, then divide by 2000 lbs = 0.07 ton of fugitive PE/year

Wind Erosion: multiply 1.95 lbs PE/day/acre, calculated from U.S. EPA's Control of Open Fugitive Dust Sources (09/88), equation 4-9, 365 days/year, 1.5 acres of storage piles and applying a conversion factor of 1 ton/2000 lbs = 0.53 ton of fugitive PE/year

Fugitive PM₁₀

Load-in: multiply 0.059 lb PM₁₀/ton (AP-42 Table 9.9.1 [3/03]) by a maximum annual throughput of 8,400 tons, a control efficiency of 80%, then divide by 2000 lbs = 0.05ton of fugitive PM₁₀/year

Transferring/Conveying: multiply 0.034 lb PM₁₀/ton (AP-42 Table 9.9.1 [3/03]) by a maximum annual throughput of 8,400 tons, a control efficiency of 80%, then divide by 2000 lbs = 0.03 tons of fugitive PM₁₀/year

Load-out: multiply 0.029 lb PM₁₀/ton (AP-42 Table 9.9.1 [3/03]) by a maximum annual throughput of 8,400 tons, a control efficiency of 80%, then divide by 2000 lbs = 0.02 ton of fugitive PM₁₀/year

Wind Erosion: multiply 1.95 lbs PE/day/acre, calculated from U.S. EPA's Control of Open Fugitive Dust Sources (09/88), equation 4-9, 365 days/year, 1.5 acres of storage piles and applying a conversion factor of 1 ton/2000 lbs. The resulting particulate emissions were converted to PM₁₀ emissions by multiplying by 0.5 = 0.27 ton PM₁₀/year

Therefore, provided compliance is shown with the annual grain throughput and the requirement to apply mineral oil, compliance with the annual emission limitation shall also be demonstrated.

b. Emission Limitation

Visible fugitive particulate emissions shall not exceed 20% opacity as a 3-minute average from grain storage and handling operations.

Applicable Compliance Method

If required, compliance shall be determined in accordance with 40 CFR Part 60, Appendix A, Method 9 and the modifications listed in paragraphs (B)(3)(a) and (B)(3)(b) of OAC rule 3745-17-03.

g) Miscellaneous Requirements

- (1) None.