



State of Ohio Environmental Protection Agency

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Columbus, OH 43216-1049

4/8/2009

Keith Martin  
Advanced Agri- Solutions Swanders  
601 S LOGAN ST  
PO BOX 360  
WAPAKONETA, OH 45895

RE: FINAL AIR POLLUTION PERMIT-TO-INSTALL AND OPERATE  
Facility ID: 0575010002  
Permit Number: P0104245  
Permit Type: Renewal  
County: Shelby

Certified Mail

No	TOXIC REVIEW
No	PSD
No	SYNTHETIC MINOR
No	CEMS
No	MACT
No	NSPS
No	NESHAPS
No	NETTING
No	MAJOR NON-ATTAINMENT
No	MODELING SUBMITTED

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.

Ohio EPA maintains a document entitled "Frequently Asked Questions about the PTIO". The document can be downloaded from the DAPC Web page, [www.epa.state.oh.us/dapc](http://www.epa.state.oh.us/dapc), from the "Permits" link. This document contains additional information related to your permit, such as what activities are covered under the PTIO, who has enforcement authority over the permit and Ohio EPA's authorization to inspect your facility and records. Please contact the Office of Compliance Assistance and Pollution Prevention at (614) 644-3469 if you need assistance.

The issuance of this PTIO is a final action of the Director and may be appealed to the Environmental Review Appeals Commission ("ERAC") under Section 3745.04 of the Ohio Revised Code. The appeal must be in writing and describe the action complained of and the grounds for the appeal. The appeal must be filed with the ERAC within thirty (30) days after notice of the Director's action. A filing fee of \$70.00 must be submitted to the ERAC with the appeal, although the ERAC, has discretion to reduce the amount of the filing fee if you can demonstrate (by affidavit) that payment of the full amount of the fee would cause extreme hardship. If you file an appeal of this action, you must notify Ohio EPA of the filing of the appeal (by providing a copy to the Director) within three (3) days of filing your appeal with the ERAC. Ohio EPA requests that a copy of the appeal also be provided to the Ohio Attorney General's Office, Environmental Enforcement Section. An appeal may be filed with the ERAC at the following address:

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

If you have any questions regarding this permit, please contact the Ohio EPA DAPC, Southwest District Office. This permit has been posted to the Division of Air Pollution Control (DAPC) Web page [www.epa.state.oh.us/dapc](http://www.epa.state.oh.us/dapc).

Sincerely,

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

Cc: Ohio EPA-SWDO

Ted Strickland, Governor  
Lee Fisher, Lieutenant Governor  
Chris Korleski, Director





**State of Ohio Environmental Protection Agency  
Division of Air Pollution Control**

**FINAL**

**Air Pollution Permit-to-Install and Operate  
for  
Advanced Agri- Solutions Swanders**

Facility ID: 0575010002  
Permit Number: P0104245  
Permit Type: Renewal  
Issued: 4/8/2009  
Effective: 4/8/2009  
Expiration: 4/8/2019





**Air Pollution Permit-to-Install and Operate**  
for  
**Advanced Agri- Solutions Swanders**

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State of Ohio Environmental Protection Agency  
Division of Air Pollution Control

**Final Permit-to-Install and Operate**  
**Permit Number:** P0104245  
**Facility ID:** 0575010002  
**Effective Date:** 4/8/2009

# Authorization

Facility ID: 0575010002  
Application Number(s): A0036622  
Permit Number: P0104245  
Permit Description: This facility would like to renew its Grain elevator with 380,000 bushel permanent grain storage capacity along with a column dryer Roadways and Parking areas, truck unloading areas.  
Permit Type: Renewal  
Permit Fee: \$0.00  
Issue Date: 4/8/2009  
Effective Date: 4/8/2009  
Expiration Date: 4/8/2019  
Permit Evaluation Report (PER) Annual Date: July 1 - June 30, Due Aug 15

This document constitutes issuance to:

Advanced Agri- Solutions Swanders  
13801 FT. LORAMIE-SWANDERS RD.  
Sidney, OH 45365-9371

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, Southwest District Office  
401 East Fifth Street  
Dayton, OH 45402  
(937)285-6357

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

Chris Korleski  
Director



## Authorization (continued)

Permit Number: P0104245  
Permit Description: This facility would like to renew its Grain elevator with 380,000 bushel permanent grain storage capacity along with a column dryer Roadways and Parking areas, truck unloading areas.

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 Elevator  
Superseded Permit Number:  
General Permit Category and Type: Not Applicable
- Emissions Unit ID:** F002  
Company Equipment ID: Roadways and parking areas  
Superseded Permit Number:  
General Permit Category and Type: Not Applicable
- Emissions Unit ID:** F003  
Company Equipment ID: Truck loadout  
Superseded Permit Number:  
General Permit Category and Type: Not Applicable
- Emissions Unit ID:** P901  
Company Equipment ID: Column dryer Vt 1210  
Superseded Permit Number:  
General Permit Category and Type: Not Applicable



State of Ohio Environmental Protection Agency  
Division of Air Pollution Control

**Final Permit-to-Install and Operate**

**Permit Number:** P0104245

**Facility ID:** 0575010002

**Effective Date:** 4/8/2009

## **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 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, Southwest 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 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.



State of Ohio Environmental Protection Agency  
Division of Air Pollution Control

**Final Permit-to-Install and Operate**

**Permit Number:** P0104245

**Facility ID:** 0575010002

**Effective Date:** 4/8/2009

## **B. Facility-Wide Terms and Conditions**



State of Ohio Environmental Protection Agency  
Division of Air Pollution Control

**Final Permit-to-Install and Operate**

**Permit Number:** P0104245

**Facility ID:** 0575010002

**Effective Date:** 4/8/2009

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.



State of Ohio Environmental Protection Agency  
Division of Air Pollution Control

**Final Permit-to-Install and Operate**

**Permit Number:** P0104245

**Facility ID:** 0575010002

**Effective Date:** 4/8/2009

## **C. Emissions Unit Terms and Conditions**



**1. F001, Grain Elevator**

**Operations, Property and/or Equipment Description:**

Grain Elevator w/ 380,000 bushel permanent grain storage capacity

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 operations(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. 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 3745-17-07	Visible particulate emissions from this emissions unit shall not exceed twenty per cent opacity, as a six-minute average
b.	OAC rule 3745-17-08	Exempt  See Section b)(2)b., below.
c.	OAC rule 3745-17-11(B)(1) Table I	The Allowable emissions from this emissions unit shall not exceed 5.4 pounds per hour.
d.	40 CFR Part 60 Subpart DD	Exempt  See Section b)(2)c., below



(2) Additional Terms and Conditions

- a. 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).
- b. The requirements under 40 CFR Part 60 Subpart DD regulate affected facility at any "grain terminal elevator" or any "grain storage elevator". 40 CFR Section 60.301(c) defines "grain terminal elevator" as having a permanent storage capacity of 2.5 million U.S. bushels; while, Section 60.301(f) defines "grain storage elevator" as having a permanent grain storage capacity of 1 million bushels. Since This facility has a permanent storage capacity of 380,000 bushels, it is not an affected facility under 40 CFR section 60.300(a)

c) Operational Restrictions

- (1) As based on the permit application for this emissions unit, the permittee shall maintain the total enclosures on emissions unit F001 in a manner to minimize and/or eliminate and release of air pollutants.

d) Monitoring and/or Recordkeeping Requirements

- (1) The permittee shall perform weekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible PE from the stack and for any visible fugitive PE from the egress points (ie., building windows, doors, roof monitors, etc.) serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operational log. If visible emissions are observed, the permittee shall also note the following in the operational 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.

The permittee may, upon receipt of written approval from the appropriate Ohio EPA District Office or local air agency, modify the above-mentioned frequencies for performing the visible emissions checks if operating experience indicates that less frequent visible emissions checks would be sufficient to ensure compliance with the above-mentioned applicable requirements.

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.



[OAC rule 3745-15-03(B)(2)] and [OAC rule 3745-15-03(D)]

f) Testing Requirements

(1) Compliance with the emissions limitations specified in Section b)(1) of these terms and conditions shall be determined in accordance with the following methods:

a. Emissions Limitation

5.4 pounds per hour

The above limitation is established by the use of the following equation from OAC rule 3745-17-11(B)(1) Table I:

$$A = 0.5782 \times (U)^{0.6458}$$

Where:

A= Maximum Allowable Mass Rate of Emissions of Particulate Matter, in pounds per hour; and

U= Uncontrolled Mass Rate of Emissions, in pounds per hour<sup>1</sup>.

<sup>1</sup>Uncontrolled Mass Rate of Emissions was established based on the following equation:

$$U = (Tp \times 0.061) + (Tp \times 0.025) + (Tp \times 0.075)$$

Where:

Tp = Throughput rate, in tons per hour (195 tons per hour, wheat worst case from Nov. 12, 1996 EAC form in PTI 05-08575 Application); and

EF = Emission Factors from AP-42 Table 9.9.1-1, (grain handling 0.061 pounds per ton, storage bin vents 0.025 pounds per ton, and grain cleaning 0.075 pounds per ton).

Applicable Compliance Method:

Compliance is based on the use of total enclosed system that reduces the overall particulate emissions (PE) by an estimated 85%. Based on the AP-42 emission factors, the estimated control efficiency, and the maximum throughput, the estimated controlled PE hourly emission rate is 4.7 pounds. Based on the estimated controlled PE emission rate this emissions unit is assumed to be in compliance.

If requested, the permittee shall conduct or have conducted an compliance stack tests in accordance with the methods 1-4, and 5 in 40 CFR Part 60 Appendix A.



b. Emissions Limitation

Visible particulate emissions from this emissions unit shall not exceed twenty per cent opacity, as a six-minute average.

Applicable Compliance Method

Compliance shall be based upon visible emissions evaluations performed in accordance with the methods and procedures specified in USEPA Reference Method 9. Compliance with the visible opacity limitations will also assure compliance with the above hourly emissions rate, in section f)(1)a. above.

When requested, the permittee shall demonstrate compliance through visible emission observations performed in accordance U.S. EPA Method 9.

g) Miscellaneous Requirements

(1) None.



**2. F002, Roadways and parking areas**

**Operations, Property and/or Equipment Description:**

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. None.

b) Applicable Emissions Limitations and/or Control Requirements

(1) The specific operations(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. 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 3745-17-07(B)(11)(e)	Exempt  See Section b)(2)a., below.
b.	OAC rule 3745-17-08	Exempt  See Section b)(2)b., below.

(2) Additional Terms and Conditions

a. The permittee is not located within an "Appendix A" area as identified in OAC rule 3745-17-08. Therefore, pursuant to OAC rule 3745-17-07(B)(11)(e), the visible particulate emission limitations specified in paragraphs (B)(1) of this rule shall not apply.

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) Operational Restrictions
  - (1) None.
- d) Monitoring and/or Recordkeeping Requirements
  - (1) None.
- e) Reporting Requirements
  - (1) None.
- f) Testing Requirements
  - (1) None.
- g) Miscellaneous Requirements
  - (1) None.



**3. F003, Truck/wagon unloading**

**Operations, Property and/or Equipment Description:**

Truck/wagon unloading

- 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 operations(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. 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)	Particulate emissions shall not exceed 270 pounds per day.  Particulate emissions shall not exceed 4.5 tons per rolling 12 month period.  PM10 shall not exceed 48.6 pounds per day.  PM10 emissions shall not exceed 0.8 tons per rolling 12 month period.  Visible emissions shall not exceed 10% opacity.
b.	OAC rule 3745-17-08	The opacity limitations specified by this rule is less stringent than the limitations



	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
		established pursuant to OAC rule 3745-31-05(A)(3)
d.	40 CFR Part 60 Subpart DD	Exempt  See Section b)(2)c., below

(2) Additional Terms and Conditions

a. The daily emission limitations for PM and PM10, 270 and 48.6, respectively, are established to reflect potential to emit for this emission unit. Therefore, it is not necessary to establish record keeping and reporting requirements to ensure compliance with these limitations.

c) Operational Restrictions

(1) This emissions unit shall be equipped with an adjustable chute and/or a sock that will minimize the release of fugitive emissions.

(2) The amount of grain processed through this facility shall not exceed 119,000 tons per rolling 12-month period.

d) Monitoring and/or Recordkeeping Requirements

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

a. The amount of grain processed in tons; and

b. The total rolling, 12-month summation grain processes, in tons. The rolling, 12-month summation of (the total grain processes for the current month ("a") plus the total grain processes ("a") for the 11 previous calendar months).

(2) The permittee shall perform weekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible PE from the stack and for any visible fugitive PE from the egress points (i.e., building windows, doors, roof monitors, etc.) serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operational log. If visible emissions are observed, the permittee shall also note the following in the operational 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.

The permittee may, upon receipt of written approval from the appropriate Ohio EPA District Office or local air agency, modify the above-mentioned frequencies for



performing the visible emissions checks if operating experience indicates that less frequent visible emissions checks would be sufficient to ensure compliance with the above-mentioned applicable requirements.

- (3) The owner or operator shall conduct periodic inspections at a frequency that is based upon the recommendation of the manufacturer of the adjustable chute and/or sock, or at least once each calendar year, whichever comes first. The inspection shall determine whether the adjustable chute and/or sock is operating in accordance with the manufacturer's recommendations, instructions, or operating manuals with any modifications deemed necessary by the owner or operator.

The owner or operator shall maintain documentation of the manufacturer's recommendations, instructions, or operating manuals for the adjustable chute and/or sock with any modifications deemed necessary by the owner or operator during the time period in which the control devices are utilized.

The owner or operator shall document each inspection of a control device by maintaining a record that includes the date of the inspection, a description of each problem identified and the date it was corrected, a description of the maintenance and repairs performed, and the name of the person who performed the inspection.

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.

[OAC rule 3745-15-03(B)(2)] and [OAC rule 3745-15-03(D)]

f) Testing Requirements

- (1) Compliance with the emissions limitations specified in Section b)(1) of these terms and conditions shall be determined in accordance with the following methods:

a. Emissions Limitation

270 pounds of particulate emissions (PE) per day

The above limitation is based on the following equation:

$$DER = [(Ht \times Ef) \times (1-Cf)] \times 24$$

Where:

DER = Daily emission rate, in pounds;

Ht = Hourly throughput, in tons per hour, (150 tons per hour);



Ef = Emissions factor, in pounds emitted per ton processed, (0.3 from AP-42 Table 6.4-1); and

Cf = Control efficiency, in percent reduced, (75, from RACM Table 2.5-3).

Applicable Compliance Method:

Compliance is based on the maximum hourly throughput is 150 tons and that adjustable chute and/or sock is employed to minimize and/or eliminate particulate emissions.

If there are modifications to this emissions unit that would increase the hourly emissions, such as an increase throughput and/or change the control equipment, the modifications will need to be review through appropriate review prior to their initiation.

b. Emissions Limitation

48.6 pounds of PM10 per day

The above limitation is based on the following equation:

$$DER = \{[(Ht \times Ef) \times P\%] \times (1-Cf)\} \times 24$$

Where:

DER = Daily emission rate, in pounds;

Ht = Hourly throughput, in tons per hour, (150 tons per hour);

Ef = Emissions factor, in pounds emitted per ton processed, (0.3 from AP-42 Table 6.4-1);

P% = Percentage of particulates less 10um, (18, AP-42 factor); and

Cf = Control efficiency, in percent reduced, (75, from RACM Table 2.5-3).

Applicable Compliance Method:

Compliance is based on the maximum hourly throughput is 150 tons and that adjustable chute and/or sock is employed to minimize and/or eliminate particulate emissions.

If there are modifications to this emissions unit that would increase the hourly emissions, such as an increase throughput and/or change the control equipment, the modifications will need to be review through appropriate review prior to their initiation.



c. Emissions Limitation

4.5 tons of particulate emissions (PE) per rolling 12-month period.

The above limitation is based on the following equation:

$$AER = [(At \times Ef) \times (1-Cf)] / (2000)$$

Where:

AER = Annual emission rate, in tons;

At = Annual throughput, in tons per rolling 12 month period, (119,000);

Ef = Emissions factor, in pounds emitted per ton processed, (0.3 from AP-42 Table 6.4-1); and

Cf = Control efficiency, in percent reduced, (75, from RACM Table 2.5-3).

Applicable Compliance Method:

The permittee shall demonstrate compliance with the above limits based upon the record keeping requirements of d)(1), of this permit, that demonstrate that the rolling 12 month throughput does not exceed 119,000 tons.

d. Emissions Limitation

0.8 tons PM10 per rolling 12-month period.

The above limitation is based on the following equation:

$$AER = \{[(At \times Ef) \times P\%] \times (1-Cf)\} / (2000)$$

Where:

AER = Annual emission rate, in tons;

At = Annual throughput, in tons per rolling 12 month period, (119,000);

Ef = Emissions factor, in pounds emitted per ton processed, (0.3 from AP-42 Table 6.4-1);

P% = Percentage of particulates less 10um, (18, AP-42 factor); and

Cf = Control efficiency, in percent reduced, (75, from RACM Table 2.5-3).

Applicable Compliance Method:

The permittee shall demonstrate compliance with the above limits based upon the record keeping requirements of d)(1), of this permit, that demonstrate that the rolling 12 month throughput does not exceed 119,000 tons.



e. Emissions Limitation

Visible emissions shall not exceed 10% opacity.

Applicable Compliance Method

Compliance shall be based upon visible emissions evaluations performed in accordance with the methods and procedures specified in USEPA Reference Method 9.

When requested, the permittee shall demonstrate compliance through visible emission observations performed in accordance U.S. EPA Method 9.

g) Miscellaneous Requirements

(1) None.



**4. P901, Column dryer Vt 1210**

**Operations, Property and/or Equipment Description:**

Column dryer Vt 1210

- 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 operations(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. 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)	Particulate emissions (PE) shall not exceed 45.2 pounds per day.  Particulate emissions shall not exceed 3.3 tons per rolling 12 month period.  PM10 emissions shall not exceed 3.73 pounds per day.  The daily emissions from the use of fuel in the drier shall not exceed the following:  1.04 pounds of SO <sub>2</sub> ; 36.4 pounds of NO <sub>x</sub> ; 9.11 pounds of CO; and 0.72 pounds of VOC.



	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
		See Section b)(2)a., c)(1),
b.	OAC rule 3745-17-10 (fuel combustion)	The particulate emissions from the combustion of gaseous fuels shall not exceed 0.020 pound per million Btu of actual heat input.
c.	OAC rule 3745-17-11(B)(1) Table I (process emissions)	The particulate emissions from the process of grain through this emissions unit shall not exceed 3.36 pounds per hour.
d.	OAC rule 3745-17-07(A)(1)	The Visible emissions from this emissions unit shall not exceed 20% opacity as based on a six minute average.
e.	40 CFR Part 60 Subpart DD	Exempt  See Section b)(2)b., below

(2) Additional Terms and Conditions

- a. The daily emission limitations for PE, PM10, SO2, NOx, CO, and VOC are established to reflect potential to emit for this emission unit. Therefore, it is not necessary to establish record keeping and reporting requirements to ensure compliance with these limitations.
- b. The requirements under 40 CFR Part 60 Subpart DD regulate affected facility at any “grain terminal elevator” or any “grain storage elevator”. 40 CFR Section 60.301(c) defines “grain terminal elevator” as having a permanent storage capacity of 2.5 million U.S. bushels; while, Section 60.301(f) defines “grain storage elevator” as having a permanent grain storage capacity of 1 million bushels. Since This facility has a permanent storage capacity of 380,000 bushels, it is not an affected facility under 40 CFR section 60.300(a). Compliance with the requirement under 40 CFR Section 60.302(a)(1), was determined to constitute BAT under OAC rule 3745-31-05(A)(3) in PTI 05-08575, issued final on March 26, 1997.

c) Operational Restrictions

- (1) This emissions unit shall employ only liquid petroleum gas (LPG) or natural gas as fuel.
- (2) This emissions unit shall be equipped with column plates with each perforation not to exceed 0.094 inches in diameter.
- (3) The amount of grain processed through this emissions unit shall not exceed 604.8 tons per day.



- (4) The maximum operating hours for this emissions unit shall not exceed 18 hours per day and 3,500 hours per rolling 12-month period.
- d) Monitoring and/or Recordkeeping Requirements
- (1) The permittee shall maintain the following daily and monthly records on this emissions units operations:
    - a. The amount of grain processed, in tons per day;
    - b. The amount of hours operated per day;
    - c. The amount of hours operated per month; and
    - d. The total amount of hours operated in a rolling, 12-month period. The hours of operation shall be a summation of (the total hours operated current month ("c") plus the total hours operated ("c") for the 11 previous calendar months).
  - (2) The permittee shall perform weekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible PE from the stack and for any visible fugitive PE from the egress points (i.e., building windows, doors, roof monitors, etc.) serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operational log. If visible emissions are observed, the permittee shall also note the following in the operational 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.

The permittee may, upon receipt of written approval from the appropriate Ohio EPA District Office or local air agency, modify the above-mentioned frequencies for performing the visible emissions checks if operating experience indicates that less frequent visible emissions checks would be sufficient to ensure compliance with the above-mentioned applicable requirements.

- (3) The owner or operator shall conduct periodic inspections at a frequency that is based upon the recommendation of the manufacturer of the column plate, or at least once each calendar year, whichever is comes first. The inspection shall determine whether the column plate in good repair and is operating in accordance with the manufacturer's recommendations, instructions, or operating manuals with any modifications deemed necessary by the owner or operator.

The owner or operator shall maintain documentation of the manufacturer's recommendations, instructions, or operating manuals for the adjustable chute and/or sock with any modifications deemed necessary by the owner or operator during the time period in which the control devices are utilized.



The owner or operator shall document each inspection of a control device by maintaining a record that includes the date of the inspection, a description of each problem identified and the date it was corrected, a description of the maintenance and repairs performed, and the name of the person who performed the inspection.

- (4) For each day during which the permittee burns a fuel other than liquid petroleum gas or natural gas in the grain drying, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.

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.

[OAC rule 3745-15-03(B)(2)] and [OAC rule 3745-15-03(D)]

f) Testing Requirements

- (1) Compliance with the emissions limitations specified in Section b)(1) of these terms and conditions shall be determined in accordance with the following methods:

- a. Emissions Limitation

45.2 pounds of particulate emissions (PE) per day

The above limitation is based on the following equation:

$$DER = [(Ht \times Ho \times Ef) \times (1-Cf)] + [(Fu \times Ho \times Ef^f)]$$

Where:

DER = Daily emission rate, in pounds;

Ht = Hourly throughput, in tons per hour, (45 tons per hour);

Ho = Hours of operation, (18 hours daily limitation);

Ef = Emissions factor, in pounds emitted per ton dried, (0.5);

Cf = Control efficiency, in percent reduced, (89);

Fu = Fuel usage, gallons per hour, (115); and

EF<sup>f</sup> = Emissions Factor (fuel), in pounds per 1000 gallons, (0.1, AP-42 Rable 1.5-1).



Applicable Compliance Method:

Compliance is based on the maximum hourly throughput is 150 tons and that adjustable chute and/or sock is employed to minimize and/or eliminate particulate emissions.

If there are modifications to this emissions unit that would increase the hourly emissions, such as an increase throughput and/or change the control equipment, the modifications will need to be review through appropriate review prior to their initiation.

b. Emissions Limitation

48.6 pounds of PM10 per day

The above limitation is based on the following equation:

$$DER = \{[(Ht \times Ef) \times P\%] \times (1-Cf)\} \times 24$$

Where:

DER = Daily emission rate, in pounds;

Ht = Hourly throughput, in tons per hour, (150 tons per hour);

Ef = Emissions factor, in pounds emitted per ton processed, (0.3 from AP-42 Table 6.4-1);

P% = Percentage of particulates less 10um, (18, AP-42 factor); and

Cf = Control efficiency, in percent reduced, (75, from RACM Table 2.5-3).

Applicable Compliance Method:

Compliance is based on the maximum hourly throughput is 150 tons and that adjustable chute and/or sock is employed to minimize and/or eliminate particulate emissions.

If there are modifications to this emissions unit that would increase the hourly emissions, such as an increase throughput and/or change the control equipment, the modifications will need to be review through appropriate review prior to their initiation.

c. Emissions Limitation

4.5 tons of particulate emissions (PE) per rolling 12-month period.

The above limitation is based on the following equation:

$$AER = [(At \times Ef) \times (1-Cf)] / (2000)$$



Where:

AER = Annual emission rate, in tons;

At = Annual throughput, in tons per rolling 12 month period, (119,000);

Ef = Emissions factor, in pounds emitted per ton processed, (0.3 from AP-42 Table 6.4-1); and

Cf = Control efficiency, in percent reduced, (75, from RACM Table 2.5-3).

Applicable Compliance Method:

The permittee shall demonstrate compliance with the above limits based upon the record keeping requirements of d)(1), of this permit, that demonstrate that the rolling 12 month throughput does not exceed 119,000 tons.

d. Emissions Limitation

0.8 tons PM10 per rolling 12-month period.

The above limitation is based on the following equation:

$$AER = \{[(At \times Ef) \times P\%] \times (1-Cf)\} / (2000)$$

Where:

AER = Annual emission rate, in tons;

At = Annual throughput, in tons per rolling 12 month period, (119,000);

Ef = Emissions factor, in pounds emitted per ton processed, (0.3 from AP-42 Table 6.4-1);

P% = Percentage of particulates less 10um, (18, AP-42 factor); and

Cf = Control efficiency, in percent reduced, (75, from RACM Table 2.5-3).

Applicable Compliance Method:

The permittee shall demonstrate compliance with the above limits based upon the record keeping requirements of d)(1), of this permit, that demonstrate that the rolling 12 month throughput does not exceed 119,000 tons.

e. Emissions Limitation

Visible emissions shall not exceed 10% opacity.



### Applicable Compliance Method

Compliance shall be based upon visible emissions evaluations performed in accordance with the methods and procedures specified in USEPA Reference Method 9.

When requested, the permittee shall demonstrate compliance through visible emission observations performed in accordance U.S. EPA Method 9.

g) Miscellaneous Requirements

- (1) None.