

Facility ID: 0125040206 Issuance type: Final State Permit To Operate

This version of facility specific terms and conditions was converted from a database format to an HTML file during an upgrade of the Ohio EPA, Division of Air Pollution Control's permitting software. Every attempt has been made to convert the terms and conditions to look and substantively conform to the permit issued or being drafted in STARS. However, the format of the terms may vary slightly from the original. In addition, although it is not expected, there is a slight possibility that a term and condition may have been inadvertently "left out" of this reproduction during the conversion process. Therefore, if this version is to be used as a starting point in drafting a new version of a permit, it is imperative that the entire set of terms and conditions be reviewed to ensure they substantively mimic the issued permit. The official version of any permit issued final by Ohio EPA is kept in the Agency's Legal section. The Legal section may be contacted at (614) 644-3037.

In addition to the terms and conditions, hyperlinks have been inserted into the document so you may more readily access the section of the document you wish to review.

Finally, the term language under "Part II" and before "A. Applicable Emissions Limitations..." has been added to aid in document conversion, and was not part of the original issued permit.

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[Go to Part II for Emissions Unit F008](#)  
[Go to Part II for Emissions Unit P901](#)

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Facility ID: 0125040206 Emissions Unit ID: F001 Issuance type: Final State Permit To Operate

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**Part II - Special Terms and Conditions**

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.

**A. Applicable Emissions Limitations and/or Control Requirements**

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Front truck receiving within an enclosure vented to a baghouse	OAC rule 3745-31-02(A) (PTI 01-12191)	Particulate emissions (PE) shall not exceed 10.0 tons/yr.
		See section A.2.a below.
	40CFR Part 60 Subpart DD	See sections A.2.b and A.2.c.
	OAC rule 3745-17-07(B)	See section A.2.d.
	OAC rule 3745-17-08 (A)(2)	See section A.2.d.
	OAC rule 3745-17-07(A)	See section A.2.d.

**2. Additional Terms and Conditions**

- (a) Permit to Install 01-12191 for this air contaminant source takes into account the following voluntary restrictions for the purpose of avoiding Best Available Technology (BAT) requirements under OAC rule 3745-31-05:
  - i. the use of a building enclosure with venting to a baghouse system that achieves a minimum 99% control efficiency, by weight for PE, whenever this air contaminant source is receiving grain from trucks. No owner or operator subject to the provisions of this subpart shall not cause to be discharged into the atmosphere from any stack, emission which:
    - i. contains particulate matter in excess of 0.023 g/dscm (ca. 0.01 gr/dscf); and
    - ii. exhibits greater than 0 percent opacity.
 On and after the 60th day of achieving the maximum production rate at which the affected facility will be operated, but no later than 180 days after initial startup, no owner or operator subject to the provisions of this subpart shall cause to be discharged into the atmosphere from an individual truck unloading station, any fugitive emission which exhibits greater than 5 percent opacity.  
 The limitation specified by this rule is less stringent than the requirement established pursuant to 40CFR Part 60 Subpart DD.

**B. Operational Restrictions**

1. The emissions from this emissions unit shall be vented to a baghouse at all times the emissions unit is in operation.

**C. Monitoring and/or Record Keeping Requirements**

1. The permittee shall properly install, operate, and maintain equipment to continuously monitor the pressure drop, in inches of water, across the baghouse when the controlled emissions unit(s) is/are in operation, including periods of startup and shutdown. The permittee shall record the pressure drop across the baghouse on weekly basis. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s).

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

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

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

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

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

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

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 the stack and for any visible emissions of fugitive dust 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 operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
  - a. the location and color of the emissions;
  - b. whether the emissions are representative of normal operations;
  - c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
  - d. the total duration of any visible emission incident; and
  - e. any corrective actions taken to minimize or eliminate the visible emissions.

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

3. The permittee may, upon receipt of written approval from the Ohio EPA Central District Office, 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.
4. The permittee shall maintain monthly records of both the tons of grain received and the tons of grain loaded out in this emissions unit.

**D. Reporting Requirements**

1. The permittee shall submit quarterly reports that identify the following information concerning the operation of the baghouse during the operation of the emissions unit(s):
  - a. each period of time when the pressure drop across the baghouse was outside of the range specified by the manufacturer and outside of the acceptable range following any required compliance demonstration;
  - b. an identification of each incident of deviation described in "a" (above) where a prompt investigation was not conducted;
  - c. an identification of each incident of deviation described in "a" where prompt corrective action, that would bring the pressure drop into compliance with the acceptable range, was determined to be necessary and was not taken; and
  - d. an identification of each incident of deviation described in "a" where proper records were not maintained for the investigation and/or the corrective action(s).

These quarterly reports shall be submitted (i.e., postmarked) by January 31, April 30, July 31, and October 31 of each year; and each report shall cover the previous calendar quarter.

2. The permittee shall submit semiannual written reports that (a) identify all days during which any visible particulate emissions were observed from the stack serving this emissions unit, (b) identify all days during which any visible emissions of fugitive dust were observed from the egress points (i.e., building windows, doors, roof

monitors, etc.) serving this emissions unit, and (c) describe any corrective actions taken to minimize or eliminate the visible particulate emissions and/or visible fugitive dust emissions. These reports shall be submitted to the Director (the appropriate Ohio EPA District Office or local air agency) by January 31 and July 31 of each year and shall cover the previous six-month periods.

3. The permittee shall submit annual reports that identify any exceedances of the annual emissions limitation, as well as the corrective actions that were taken to achieve compliance. These reports shall be submitted by January 31 of each year.

**E. Testing Requirements**

1. Compliance with the emission limitation(s) in Section A.1. of these terms and conditions shall be determined in accordance with the following method.

Emission Limitation:  
PE shall not exceed 10.0 tons/yr

**Applicable Compliance Method**

Compliance with the allowable annual PE limitation may be determined from emission factors from AP-42 Table 9.9.1-1 for either straight truck unloading of 0.18 lb PE/ton (SCC 3-02-005-51) multiplied by the maximum annual amount of grain received multiplied times the 99% control efficiency and divided by 2000 lbs/ton, as follows:

0.18 lb PE/ton multiplied times the tons of grain unloaded multiplied times 0.01 divided by 2,000 pounds equal the total particulate emissions in tons per year.

**Emission Limitation**

No owner or operator shall cause to be discharged into the atmosphere any stack, particulate emissions which contain in excess of 0.023 g/dscm (ca. 0.01 gr PE/dscf).

**Applicable Compliance Method**

Compliance was demonstrated on June 2, 2005 through particulate emission testing performed in accordance with 40 CFR Part 60 ("Standards of Performance for New Stationary Sources"), Appendix A, U.S. EPA Reference Method 5.

If required, the permittee shall demonstrate compliance with the 0.01 gr PE/dscf mission limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1- 5.

**Emission Limitation**

No owner or operator shall cause to be discharged into the atmosphere any stack emission which exhibits greater than 0 percent opacity.

**Applicable Compliance Method**

Compliance was demonstrated on June 2, 2005 through particulate emission testing performed in accordance with 40 CFR Part 60 ("Standards of Performance for New Stationary Sources"), Appendix A, U.S. EPA Reference Method 9.

If required, compliance shall be determined through visible emission observations performed in accordance with 40 CFR Part 60 ("Standards of Performance for New Stationary Sources"), Appendix A, U.S. EPA Reference Method 9 and the procedures specified in OAC rule 3745-17-03(B)(1).

**Emission Limitation**

No owner or operator shall cause to be discharged into the atmosphere from any individual truck unloading station, any fugitive emission which exhibits greater than 5 percent opacity:

**Applicable Compliance Method**

Compliance was demonstrated on June 2, 2005 through particulate emission testing performed in accordance with 40 CFR Part 60 ("Standards of Performance for New Stationary Sources"), Appendix A, U.S. EPA Reference Method 9.

If required, compliance shall be determined in accordance with Test Method 9 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources"), as such Appendix existed on July 1, 2002, and the applicable modifications listed in paragraphs (B)(3)(a) through (B)(3)(e) of OAC rule 3745-17-03.

**F. Miscellaneous Requirements**

1. None

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Facility ID: 0125040206 Emissions Unit ID: F008 Issuance type: Final State Permit To Operate

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**Part II - Special Terms and Conditions**

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.

**A. Applicable Emissions Limitations and/or Control Requirements**

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Back dump for railcar and truck with railcar and truck loading within enclosure vented to baghouse	OAC rule 3745-31-05(A)(3) (PTI 01-5230)	Particulate emissions (PE) shall not exceed 5.2 tons/yr
	40CFR Part 60 Subpart DD	See section A.2.a
	OAC rule 3745-17-07(B)	See sections A.2.b and A.2.c.
	OAC rule 3745-17-08 (A)(2)	See section A.2.d.
	OAC rule 3745-17-07(A)	See section A.2.d.

**2. Additional Terms and Conditions**

- (a) Permit to Install 01-5230 for this air contaminant source takes into account the following voluntary restrictions for the purpose of complying with Best Available Technology (BAT) requirements under OAC rule 3745-31-05:
  - i. the use of a partial building enclosure with venting to a baghouse system that achieves a minimum 99% control efficiency, by weight for PE, whenever this air contaminant source is receiving grain from trucks or rail car; and
  - ii. the use of a partial building enclosure that achieves a minimum 99% control efficiency, by weight for PE, with the use of an adjustable spout and choke feed for load out to truck or use of a portable conveyor during loadout to a portable box container.  
No owner or operator subject to the provisions of this subpart shall not cause to be discharged into the atmosphere from any stack emission which:
    - i. contains particulate matter in excess of 0.023 g/dscm (ca. 0.01 gr/dscf); and
    - ii. exhibits greater than 0 percent opacity.  
No owner or operator subject to the provisions of this subpart shall cause to be discharged into the atmosphere any fugitive emission from an individual truck unloading station, railcar unloading station, or railcar loading station, which exhibits greater than 5 percent opacity.  
No owner or operator shall cause to be discharged into the atmosphere any fugitive emission from a truck loading station which exhibits greater than 10 percent opacity.  
The limitation specified by this rule is less stringent than the requirement established pursuant to 40CFR Part 60 Subpart DD.

**B. Operational Restrictions**

1. The emissions from this emissions unit shall be vented to a baghouse at all times the emissions unit is in operation.

**C. Monitoring and/or Record Keeping Requirements**

1. The permittee shall properly install, operate, and maintain equipment to continuously monitor the pressure drop, in inches of water, across the baghouse when the controlled emissions unit(s) is/are in operation, including periods of startup and shutdown. The permittee shall record the pressure drop across the baghouse on weekly basis. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s).

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

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

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

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

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

This range or limit on the pressure drop across the baghouse is effective for the duration of this permit, unless revisions are requested by the permittee and approved in writing by the appropriate Ohio EPA District Office or local air agency. The permittee may request revisions to the permitted limit or range for the pressure drop

based upon information obtained during future testing that demonstrate compliance with the allowable particulate emission rate for the controlled emissions unit(s). In addition, approved revisions to the range or limit will not constitute a relaxation of the monitoring requirements of this permit and may be incorporated into this permit by means of an administrative modification.

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 the stack and for any visible emissions of fugitive dust 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 operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
  - a. the location and color of the emissions;
  - b. whether the emissions are representative of normal operations;
  - c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
  - d. the total duration of any visible emission incident; and
  - e. any corrective actions taken to minimize or eliminate the visible emissions.

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

3. The permittee may, upon receipt of written approval from the Ohio EPA Central District Office, 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.
4. The permittee shall maintain monthly records of both the tons of grain received and the tons of grain loaded out in this emissions unit.

#### D. Reporting Requirements

1. The permittee shall submit quarterly reports that identify the following information concerning the operation of the baghouse during the operation of the emissions unit(s):
  - a. each period of time when the pressure drop across the baghouse was outside of the range specified by the manufacturer and outside of the acceptable range following any required compliance demonstration;
  - b. an identification of each incident of deviation described in "a" (above) where a prompt investigation was not conducted;
  - c. an identification of each incident of deviation described in "a" where prompt corrective action, that would bring the pressure drop into compliance with the acceptable range, was determined to be necessary and was not taken; and
  - d. an identification of each incident of deviation described in "a" where proper records were not maintained for the investigation and/or the corrective action(s).

These quarterly reports shall be submitted (i.e., postmarked) by January 31, April 30, July 31, and October 31 of each year; and each report shall cover the previous calendar quarter.

2. The permittee shall submit semiannual written reports that (a) identify all days during which any visible particulate emissions were observed from the stack serving this emissions unit, (b) identify all days during which any visible emissions of fugitive dust were observed from the egress points (i.e., building windows, doors, roof monitors, etc.) serving this emissions unit, and (c) describe any corrective actions taken to minimize or eliminate the visible particulate emissions and/or visible fugitive dust emissions. These reports shall be submitted to the Director (the appropriate Ohio EPA District Office or local air agency) by January 31 and July 31 of each year and shall cover the previous six-month periods.
3. The permittee shall submit annual reports that identify any exceedances of the annual emissions limitation, as well as the corrective actions that were taken to achieve compliance. These reports shall be submitted by January 31 of each year.

#### E. Testing Requirements

1. Compliance with the emission limitation(s) in Section A.1. of these terms and conditions shall be determined in accordance with the following method.

Emission Limitation:  
PE shall not exceed 5.2 tons/yr

##### Applicable Compliance Method

Compliance with the allowable annual PE limitation may be determined from emission factors from AP-42 Table 9.9.1-1 for either straight truck unloading of 0.18 lb PE/ton (SCC 3-02-005-51) or for internal grain handling during loadout of 0.061 lb PE/ton (SCC 3-02-005-30) multiplied by the corresponding maximum annual amount of either grain received or grain loaded out multiplied times the corresponding control efficiency and divided by 2000 lbs/ton, as follows:

$(0.18 \text{ lb PE/ton} * \text{tons grain unloaded} * 0.01) + (0.061 \text{ lb PE/ton} * \text{tons grain loaded out} * 0.25)$  divided by 2,000 pounds equal the total particulate emissions in tons per year.

Emission Limitation

No owner or operator shall cause to be discharged into the atmosphere any stack, particulate emissions which contain in excess of 0.023 g/dscm (ca. 0.01 gr PE/dscf).

**Applicable Compliance Method:**

If required, the permittee shall demonstrate compliance with the 0.01 gr PE/dscf mission limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1- 5.

**Emission Limitation**

No owner or operator shall cause to be discharged into the atmosphere any stack emission which exhibits greater than 0 percent opacity.

**Applicable Compliance Method**

Compliance was demonstrated on September 26, 1995 through particulate emission testing performed in accordance with 40 CFR Part 60 ("Standards of Performance for New Stationary Sources"), Appendix A, U.S. EPA Reference Method 9.

If required, compliance shall be determined through visible emission observations performed in accordance with 40 CFR Part 60 ("Standards of Performance for New Stationary Sources"), Appendix A, U.S. EPA Reference Method 9 and the procedures specified in OAC rule 3745-17-03(B)(1).

**Emission Limitation:**

No owner or operator shall cause to be discharged into the atmosphere from Any individual truck unloading station, railcar unloading station, or railcar loading station, which exhibits greater than 5 percent opacity.

**Applicable Compliance Method:**

Compliance was demonstrated on September 26, 1995 through particulate emission testing performed in accordance with 40 CFR Part 60 ("Standards of Performance for New Stationary Sources"), Appendix A, U.S. EPA Reference Method 9.

If required, compliance shall be determined in accordance with Test Method 9 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources"), as such Appendix existed on July 1, 2002, and the applicable modifications listed in paragraphs (B)(3)(a) through (B)(3)(e) of OAC rule 3745-17-03.

**Emission Limitation:**

No owner or operator subject to the provisions of this subpart shall cause to be discharged into the atmosphere any fugitive emission from a truck loading station which exhibits greater than 10 percent opacity.

**Applicable Compliance Method:**

Compliance was demonstrated on September 26, 1996 and May 1, 2008 during load out through particulate emission testing performed in accordance with 40 CFR Part 60 ("Standards of Performance for New Stationary Sources"), Appendix A, U.S. EPA Reference Method 9.

If required, compliance shall be determined in accordance with Test Method 9 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources"), as such Appendix existed on July 1, 2002, and the applicable modifications listed in paragraphs (B)(3)(a) through (B)(3)(e) of OAC rule 3745-17-03.

**F. Miscellaneous Requirements**

- 1. None

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**Facility ID: 0125040206 Emissions Unit ID: P901 Issuance type: Final State Permit To Operate**

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**Part II - Special Terms and Conditions**

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- 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.

**A. Applicable Emissions Limitations and/or Control Requirements**

- 1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Zimmerman natural gas fired column grain dryer (31MMBTU/hr)	OAC 3745-31-05(A)(3) (PTI 01-6698)	Particulate emissions (PE) shall not exceed 26.3 tons PM10/yr.

Nitrogen oxide emissions shall not exceed 18.1 tons NO<sub>x</sub>/yr.

Carbon monoxide emissions shall not exceed 4.5 tons CO/yr.

40 CFR part 60, subpart DD

See section A.2.a below.

No owner or operator shall cause to be discharged into the atmosphere any gases which exhibit greater than 0 percent opacity from a column dryer with column plate perforation exceeding 2.4 mm diameter (ca. 0.094 inch)

OAC rules 3745-17-08(B)

See section A.2.b below.

OAC rule 3745-17-07(B)

See section A.2.c below.

See section A.2.c below.

**2. Additional Terms and Conditions**

- (a) The emission limitations in section A.1 were established to reflect the potential to emit. Therefore, it is not necessary to develop recordkeeping and reporting requirements to document compliance with these limitations.  
The diameter of the column plate perforation in the dryer shall not exceed 2.4mm (0.094 inch).  
The limitation specified by this rule is less stringent than the requirement established pursuant to 40CFR Part 60 Subpart DD.

**B. Operational Restrictions**

- 1. None

**C. Monitoring and/or Record Keeping Requirements**

- 1. The permittee shall maintain the following monthly records on site, and shall make these records available to Ohio EPA upon request:
  - a. the amount of grain dried (bushels); and
  - b. the number of hours the dryer operated.

**D. Reporting Requirements**

- 1. None

**E. Testing Requirements**

- 1. Compliance with the emission limitation(s) in Section A.1 of these terms and conditions shall be determined in accordance with the following method(s):  
Emission Limitation:  
Particulate emissions shall not exceed 26.3 tons PM10/yr.  
  
Applicable Compliance Method:  
Compliance may be demonstrated by calculation using the emission factor for soybean drying of 0.055 lb PM10/ton (SCC 3-02-005-27) multiplied times 140 tons/hr (maximum hourly throughput) multiplied times 6,831 hrs/yr and divided by 2,000 lbs/ton, as follows:  
  
 $(0.055 \text{ lb PM10/ton} \times 140 \text{ tons/hr} \times 6,831 \text{ hrs/yr}) / 2,000 \text{ lbs/ton} = 26.3 \text{ tons PM10/yr}$   
Emission Limitation:  
Nitrogen oxide emissions shall not exceed 18.1 tons NO<sub>x</sub>/yr.  
  
Applicable Compliance Method:  
Compliance may be demonstrated by calculation at the maximum natural gas combustion rate of 31 MMBtu/hr divided by the heat content for natural gas of 1.050 MBtu/cuft multiplied by the emission factor of 140 lbs NO<sub>x</sub>/MMcuft (SCC 3-02-900-03) multiplied times 8,760 hrs/yr and divided by 2,000 lbs/ton.  
  
 $(31 \text{ MMBtu/hr} \times 1 \text{ cuft}/1.050 \text{ MBtu} \times 140 \text{ lbs NO}_x/\text{MMcuft} \times 8760 \text{ hrs}) / 2000 \text{ lbs} = 18.1 \text{ tons NO}_x/\text{yr}$   
Emission Limitation:  
Carbon monoxide emissions shall not exceed 4.5 tons CO/yr.  
  
Applicable Compliance Method:  
Compliance may be demonstrated by calculation at the maximum natural gas combustion rate of 31 MMBtu/hr divided by the heat content for natural gas of 1.050 MBtu/cuft multiplied by the emission factor of 35 lbs CO/MMcuft (SCC 3-02-900-03) multiplied times 8,760 hrs/yr and divided by 2,000 lbs/ton.  
  
 $(31 \text{ MMBtu/hr} \times 1 \text{ cuft}/1.050 \text{ MBtu} \times 35 \text{ lbs CO/MMcuft} \times 8,760 \text{ hrs}) / 2000 \text{ lbs/ton} = 4.5 \text{ tons CO/yr}$   
Emission Limitation:  
No owner or operator shall cause to be discharged into the atmosphere any gases which exhibit greater than 0 percent opacity from a column dryer with column plate perforation exceeding 2.4 mm diameter (ca. 0.094 inch)  
  
Applicable Compliance Method:  
If required, compliance shall be determined through visible emission observations performed in accordance with 40 CFR Part 60 ("Standards of Performance for New Stationary Sources"), Appendix A, U.S. EPA Reference Method 9 and the procedures specified in OAC rule 3745-17-03(B)(1).

**F. Miscellaneous Requirements**

- 1. None