



State of Ohio Environmental Protection Agency

Street Address:

Lazarus Gov. Center
122 S. Front Street
Columbus, OH 43215

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Lazarus Gov. Center
P.O. Box 1049
Columbus, OH 43216-1049

**RE: PERMIT TO INSTALL
CLARK COUNTY
Application No: 08-4011**

CERTIFIED MAIL

	TOXIC REVIEW
	PSD
	SYNTHETIC MINOR
	CEMS
	MACT
	NSPS
	NESHAPS
	NETTING
	MAJOR NON-ATTAINMENT
	MODELING SUBMITTED

DATE: May 12, 1999

South Charleston Animal Feed Blending
Don Kelly
5141 Bowser Road PO Box 79728
Simonton, TX 77476

Enclosed please find an Ohio EPA Permit to Install which will allow you to install the described source(s) in a manner indicated in the permit. Because this permit contains several conditions and restrictions, I urge you to read it carefully.

The Ohio EPA is urging 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 Pollution Prevention at (614) 644-3469.

You are hereby notified that this action by the Director is final and may be appealed to the Ohio Environmental Review Appeals Commission pursuant to Chapter 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. It must be filed within thirty (30) days after the notice of the Director's action. A copy of the appeal must be served on the Director of the Ohio Environmental Protection Agency within three (3) days of filing with the Commission. An appeal may be filed with the Environmental Review Appeals Commission at the following address:

Environmental Review Appeals Commission
236 East Town Street, Room 300
Columbus, Ohio 43215

Very truly yours,

Thomas G. Rigo, Manager
Field Operations and Permit Section
Division of Air Pollution Control

cc: USEPA
REGIONAL AIR POLLUTION CONTROL AGENCY



AGENCY

Permit To Install

Issue Date: May 12, 1999

Terms and Conditions

Effective Date: May 12, 1999

PERMIT TO INSTALL 08-4011

Application Number: 08-4011

APS Premise Number: 0812740544

Permit Fee: **\$4,900.00**

Name of Facility: South Charleston Animal Feed Blending

Person to Contact: Don Kelly

Address: 5141 Bowser Road PO Box 79728
Simonton, TX 77476

Location of proposed air contaminant source(s) [emissions unit(s)]:

**1160 Huntington Road
South Charleston, OHIO**

Description of proposed emissions unit(s):

**ANIMAL FEED BLENDING PLANT; ROADWAYS; FEED INGREDIENT RECEIVING,
GRINDER/BLENDER/EXTRUDER, DRYER, COOLER, PRODUCT LOADOUT.**

The above named entity is hereby granted a Permit to Install for the above described emissions unit(s) 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 above described emissions unit(s) of environmental pollutants will operate in compliance with applicable State and Federal laws and regulations, and does not constitute expressed or implied assurance that if constructed or modified in accordance with those plans and specifications, the above described emissions unit(s) of pollutants will be granted the necessary permits to operate (air) or NPDES permits as applicable.

This permit is granted subject to the conditions attached hereto.

Ohio Environmental Protection Agency

Director

Part I - GENERAL TERMS AND CONDITIONS

A. Permit to Install General Terms and Conditions

1. Compliance Requirements

The emissions unit(s) identified in this Permit to Install shall remain in full compliance with all applicable State laws and regulations and the terms and conditions of this permit.

2. Reporting Requirements Related to Monitoring and Recordkeeping Requirements

The permittee shall submit required reports in the following manner:

- a. Reports of any required monitoring and/or recordkeeping information shall be submitted to the appropriate Ohio EPA District Office or local air agency.
- b. Except as otherwise may be provided in the terms and conditions for a specific emissions unit, quarterly written reports of (a) any deviations (excursions) from emission limitations, operational restrictions, and control device operating parameter limitations that have been detected by the testing, monitoring, and recordkeeping requirements specified in this permit, (b) the probable cause of such deviations, and (c) any corrective actions or preventive measures which have been or will be taken, shall be submitted to the appropriate Ohio EPA District Office or local air agency. If no deviations occurred during a calendar quarter, the permittee shall submit a quarterly report, which states that no deviations occurred during that quarter. The reports shall be submitted quarterly, i.e., by January 31, April 30, July 31, and October 31 of each year and shall cover the previous calendar quarters. (These quarterly reports shall exclude deviations resulting from malfunctions reported in accordance with OAC rule 3745-15-06.)

3. Records Retention Requirements

Each record of any monitoring data, testing data, and support information required pursuant to this permit shall be retained for a period of five years from the date the record was created. Support information shall include, but not be limited to, all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by this permit. Such records may be maintained in computerized form.

4. Inspections and Information Requests

The Director of the Ohio EPA, or an authorized representative of the Director, may, subject to the safety requirements of the permittee and without undue delay, enter upon the premises of this source at any reasonable time for purposes of making inspections, conducting tests, examining records or reports pertaining to any emission of air contaminants, and determining compliance with any applicable State air pollution laws and regulations and the terms and conditions of this permit. The permittee shall furnish to the Director of the Ohio EPA, or an authorized representative of the Director, upon receipt of a written request and within a reasonable time, any

information that may be requested to determine whether cause exists for modifying, reopening or revoking this permit or to determine compliance with this permit. Upon verbal or written request, the permittee shall also furnish to the Director of the Ohio EPA, or an authorized representative of the Director, copies of records required to be kept by this permit.

5. Scheduled Maintenance/Malfunction Reporting

Any scheduled maintenance of air pollution control equipment shall be performed in accordance with paragraph (A) of OAC rule 3745-15-06. The malfunction of any emissions units or any associated air pollution control system(s) shall be reported to the appropriate Ohio EPA District Office or local air agency in accordance with paragraph (B) of OAC rule 3745-15-06. Except as provided in that rule, any scheduled maintenance or malfunction necessitating the shutdown or bypassing of any air pollution control system(s) shall be accompanied by the shutdown of the emissions unit(s) that is (are) served by such control system(s).

6. Permit Transfers

Any transferee of this permit shall assume the responsibilities of the prior permit holder. The appropriate Ohio EPA District Office or local air agency must be notified in writing of any transfer of this permit.

7. Air Pollution Nuisance

The air contaminants emitted by the emissions units covered by this permit shall not cause a public nuisance, in violation of OAC rule 3745-15-07.

8. Termination of Permit to Install

This Permit to Install shall terminate within eighteen months of the effective date of the Permit to Install if the owner or operator has not undertaken a continuing program of installation or modification or has not entered into a binding contractual obligation to undertake and complete within a reasonable time a continuing program of installation or modification. This deadline may be extended by up to 12 months if application is made to the Director within a reasonable time before the termination date and the party shows good cause for any such extension.

9. Construction of New Sources(s)

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

If the construction of the proposed emissions unit(s) has already begun or has been completed prior to the date the Director of the Environmental Protection Agency approves the permit application and plans, the approval does not constitute expressed or implied assurance that the proposed facility has been constructed in accordance with the approved plans. The action of beginning and/or completing construction prior to obtaining the Director's approval constitutes a violation of OAC rule 3745-31-02. Furthermore, issuance of the Permit to Install does not constitute an assurance that the proposed source will operate in compliance with all Ohio laws and regulations. Approval of the plans in any case is not to be construed as an approval of the facility as constructed and/or completed. Moreover, issuance of the Permit to Install is not to be construed as a waiver of any rights that the Ohio Environmental Protection Agency (or other persons) may have against the applicant for starting construction prior to the effective date of the permit. Additional facilities shall be installed upon orders of the Ohio Environmental Protection Agency if the proposed facilities prove to be inadequate or cannot meet applicable standards.

10. Public Disclosure

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

11. Applicability

This Permit to Install is applicable only to the emissions unit(s) identified in the Permit to Install. Separate application must be made to the Director for the installation or modification of any other emissions unit(s).

12. Best Available Technology

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

13. Source Operation and Operating Permit Requirements After Completion of Construction

This facility is permitted to operate each source described by this Permit to Install for a period of up to one year from the date the source commenced operation. This permission to operate is granted only if the facility complies with all requirements contained in this permit and all applicable air pollution laws, regulations, and policies. Pursuant to OAC Chapter 3745-35, the permittee shall submit a complete operating permit application within thirty (30) days after commencing operation of the emissions unit(s) covered by this permit.

14. Construction Compliance Certification

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

15. Fees

The permittee shall pay fees to the Director of the Ohio EPA in accordance with ORC section 3745.11 and OAC Chapter 3745-78. The permittee shall pay all applicable Permit to Install fees within 30 days after the issuance of this Permit to Install.

B. Permit to Install Summary of Allowable Emissions

The following information summarizes the total allowable emissions, by pollutant, based on the individual allowable emissions of each air contaminant source identified in this permit.

SUMMARY (for informational purposes only)
TOTAL PERMIT TO INSTALL ALLOWABLE EMISSIONS

<u>Pollutant</u>	<u>Tons Per Year</u>
PM	4.14
NO _x	6.0
CO	5.06

PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)

A. Applicable Emissions Limitations and/or Control Requirements

1. The specific operations(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 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>
unpaved roadways and parking areas (see section F.)	OAC rule 3745-31-05	no visible particulate emissions except for 3 minutes during any 60-minute period best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust (see Sections A.2.b through A.2.g)

2. Additional Terms and Conditions

- 2.a The unpaved roadways and parking areas that are covered by this permit and subject to the above-mentioned requirements are listed below:

unpaved roadways:

access road

unpaved parking areas:

plant parking

- 2.b The permittee shall employ best available control measures on all unpaved roadways and parking areas for the purpose of ensuring compliance with the above-mentioned applicable requirements. In accordance with the permittee’s permit application, the permittee has committed to treat the unpaved roadways and parking areas with water at sufficient treatment frequencies to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.

- 2.c The needed frequencies of implementation of the control measures shall be determined by the permittee's inspections pursuant to the monitoring section of this permit. Implementation of the control measures shall not be necessary for an unpaved roadway or parking area that is covered with snow and/or ice or if precipitation has occurred that is sufficient for that day to ensure compliance with the above-mentioned applicable requirements. Implementation of any control measure may be suspended if unsafe or hazardous driving conditions would be created by its use.
- 2.d Any unpaved roadway or parking area, which during the term of this permit is paved or takes the characteristics of a paved surface due to the application of certain types of dust suppressants, may be controlled using appropriate dust control measures for paved surfaces. Any unpaved roadway or parking area that takes the characteristics of a paved roadway or parking area due to the application of certain types of dust suppressants shall remain subject to the visible emission limitation for unpaved roadways and parking areas. Any unpaved roadway or parking area that is paved shall be subject to a visible emission limitation of no visible particulate emissions except for one minute during any 60-minute period.
- 2.e The permittee shall promptly remove, in such a manner as to minimize or prevent resuspension, earth and/or other material from paved streets onto which such material has been deposited by trucking or earth moving equipment or erosion by water or other means.
- 2.f Open-bodied vehicles transporting materials likely to become airborne shall have such materials covered at all times if the control measure is necessary for the materials being transported.
- 2.g Implementation of the above-mentioned control measures in accordance with the terms and conditions of this permit is appropriate and sufficient to satisfy the best available technology requirements of OAC rule 3745-31-05.

B. Operational Restrictions

None.

C. Monitoring and/or Recordkeeping Requirements

- 1. Except as otherwise provided in this section, the permittee shall perform inspections of the unpaved roadways and parking areas in accordance with the following frequencies:

<u>unpaved roadways</u>	<u>minimum inspection frequency</u>
access road	weekly
<u>unpaved parking areas</u>	<u>minimum inspection frequency</u>
plant parking	weekly

2. The purpose of the inspections is to determine the need for implementing the above-mentioned control measures. The inspections shall be performed during representative, normal traffic conditions. No inspection shall be necessary for a roadway or parking area that is covered with snow and/or ice or if precipitation has occurred that is sufficient for that day to ensure compliance with the above-mentioned applicable requirements. Any required inspection that is not performed due to any of the above-identified events shall be performed as soon as such event(s) has (have) ended, except if the next required inspection is within one week.
3. The permittee may, upon receipt of written approval from the appropriate Ohio EPA District Office or local air agency, modify the above-mentioned inspection frequencies if operating experience indicates that less frequent inspections would be sufficient to ensure compliance with the above-mentioned applicable requirements.
4. The permittee shall maintain records of the following information:
 - a. the date and reason any required inspection was not performed, including those inspections that were not performed due to snow and/or ice cover or precipitation;
 - b. the date of each inspection where it was determined by the permittee that it was necessary to implement the control measures;
 - c. the dates the control measures were implemented; and,
 - d. on a calendar quarter basis, the total number of weeks the control measures were implemented and the total number of days where snow and/or ice cover or precipitation were sufficient to not require the control measures.

The information required in 4.d. shall be updated on a calendar quarter basis within 30 days after the end of each calendar quarter.

D. Reporting Requirements

1. The permittee shall submit deviation reports that identify any of the following occurrences:
 - a. each week during which an inspection was not performed by the required frequency, excluding an inspection which was not performed due to an exemption for snow and/or ice cover or precipitation; and,
 - b. each instance when a control measure, that was to be implemented as a result of an inspection, was not implemented.
2. The deviation reports shall be submitted in accordance with the reporting requirements of the General Terms and Conditions of this permit.

E. Testing Requirements

1. Compliance with the emission limitation for the unpaved roadways and parking areas identified above shall be determined in accordance with Test Method 22 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, 1996, and the modifications listed in paragraphs (B)(4)(a) through (B)(4)(d) of OAC rule 3745-17-03.

F. Miscellaneous Requirements

1. This permit represents a modification to this emissions unit from PTI 08-3695 issued July 16, 1997.

PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S) [Continued]

A. Applicable Emissions Limitations and/or Control Requirements

1. The specific operations(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 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>
Feed ingredient receiving area (mixed dried grain and egg product*) and into dry ingredient storage - cluster of 8 storage bins, 2675 cu.ft. each; and refrigerated liquid storage - (2) 15,000 gallon tanks and (2) 20,000 gallon tanks *egg product consists of eggs, including shell, whites and yoke, inedible for human consumption	OAC rule 3745-31-05	0.43 ton/yr particulate; totally enclosed receiving area with the enclosure maintained under negative pressure with ventilation to biofilter; no visible emissions of fugitive dust from the enclosure; no visible emissions from the dry ingredient storage bins

2. Additional Terms and Conditions

- 2.a The maximum annual mixed dried grain feed ingredient receiving rate for this plant shall not exceed 504,000 tons.
- 2.b The maximum annual egg product feed ingredient receiving rate for this plant shall not exceed 31,000 tons.
- 2.c All egg product received and stored at this facility must be refrigerated to a temperature of 45 degrees Fahrenheit or cooler.

B. Operational Restrictions

None.

C. Monitoring and/or Recordkeeping Requirements

1. The permittee shall maintain monthly records of the amount (tons) of mixed dried grain feed ingredient received at this plant.

2. The permittee shall maintain monthly records of the amount (tons) of egg product feed ingredient received at the plant.
3. The permittee shall monitor the refrigeration temperature of the 4 liquid egg slurry storage tanks. The permittee shall record the temperature of each storage tank daily, when the tank is in use.

D. Reporting Requirements

1. The permittee shall submit annual reports which identify any exceedances of the annual mixed dried grain and/or egg product receiving limitations, as well as the corrective actions that were taken to achieve compliance. These reports shall be submitted by January 31 of each year.
2. The permittee shall submit annual reports which identify any day when the temperature of the egg slurry storage tanks was more than 45 degrees Fahrenheit, 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.I of these terms and conditions shall be determined in accordance with the following method(s):

a. Emission Limitation-

0.43 ton/yr particulate

Applicable Compliance Method-

Compliance is based upon a maximum annual mixed dried grain receiving rate of 504,000 tons multiplied by the AP-42 (5/98) emission factor of 0.017 lb/ton. The result, 8,568 pounds, is then multiplied by an estimated 90% control efficiency, for the biofilter (1-.90) and divided by 2,000 lbs/ton. (Egg product is not considered a particulate emission contributor.)

Compliance shall be based upon the area being enclosed and maintained under negative pressure and no visible fugitive emissions.

b. Emission Limitation-

no visible emissions

Applicable Compliance Method-

Compliance shall be determined by visible emission evaluations using the methods and procedures specified in USEPA Method 22.

F. Miscellaneous Requirements

1. This permit represents a modification to this emissions unit from PTI 08-3695 issued July 16, 1997.

PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S) [Continued]

A. Applicable Emissions Limitations and/or Control Requirements

1. The specific operations(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 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>
mixed grain grinder and transfer to storage; Blender/Extruder of egg & grain slurry	OAC rule 3745-31-05	0.66 ton/yr particulate; fully enclosed grinder with mixed grain elevated (leg also totally enclosed) to storage (see F002); totally enclosed area maintained under negative pressure with ventilation to biofilter; no visible emissions of fugitive dust from the enclosure and elevator leg

2. **Additional Terms and Conditions**

- 2.a None.

B. Operational Restrictions

None.

C. Monitoring and/or Recordkeeping Requirements

None.

D. Reporting Requirements

None.

E. Testing Requirements

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

a. Emission Limitation-

0.66 ton/yr particulate

Applicable Compliance Method-

Compliance is based upon a maximum annual mixed dried grain grinding rate of 109,500 tons multiplied by an AP-42 (5/98) emission factor of 0.012 lb/ton (includes control estimate for bio-filter) and divided by 2,000 lbs/ton. (Egg product is not considered a particulate emission contributor.)

Compliance shall be based upon the area being enclosed and maintained under negative pressure and no visible fugitive emissions

b. Emission Limitation-

no visible emissions

Applicable Compliance Method-

Compliance shall be determined by visible emission evaluations using the methods and procedures specified in USEPA Method 22.

F. Miscellaneous Requirements

1. This emissions unit was not previously identified under PTI 08-3695, issued July 16, 1997.

PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S) [Continued]

A. Applicable Emissions Limitations and/or Control Requirements

1. The specific operations(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 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>
30 mmBtu/hr (3 burners @ 10 mmBtu/hr) natural gas-fired dryer with 3 cyclones (in series), followed by a spray cooler wet scrubber and biofilter	OAC rule 3745-31-05	0.21 lb/hr and 0.49 ton/yr particulate; 2.9 lbs/hr and 6.0 tons/yr NO _x ; 2.44 lbs/hr and 5.06 tons/yr CO
	OAC rule 3745-17-11	The limit based on this rule is less stringent than the limit established by OAC rule 3745-31-05 above

2. **Additional Terms and Conditions**

- 2.a None.

B. Operational Restrictions

1. The temperature of the exiting air from the spray cooler wet scrubber must not exceed 110 degrees Fahrenheit.
2. The pH of the water collected beneath the biofilter bed must be maintained within the range of 5.5 to 8.5.
3. The moisture content of the biofilter bed shall be maintained between 50 and 60 percent.

C. Monitoring and/or Recordkeeping Requirements

1. The permittee shall properly install, operate and maintain equipment to monitor the temperature, in degrees Fahrenheit, of the exiting air, from the spray cooler wet scrubber while the emissions unit is in operation. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations with any modifications deemed necessary by the permittee. The permittee shall record the temperature on a once per shift basis.

2. The permittee shall monitor and record the pH of the water collected beneath the biofilter bed on a weekly basis.
3. The permittee shall check the biofilter bed visually each day for moisture levels. Records shall be maintained of adjustments that are made with the watering system in order to maintain the biofilter moisture content as specified in section B.3.

D. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports which include the following:
 - a. each shift the temperature (degrees Fahrenheit) of the exiting air from the spray cooler wet scrubber did not comply with the temperature requirement specified above.
 - b. each week the bio-filter did not comply with the pH requirement specified above,

The quarterly deviation (excursion) reports shall be submitted according to General Terms and Conditions A.2.

E. Testing Requirements

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

- a. Emission Limitation-

0.22 lb/hr particulate

Applicable Compliance Method-

Compliance shall be determine by totaling the following products:

- i. particulate from fuel

The maximum hourly gas burning rate of the emissions unit (0.030 mm, @ 1,000 Btu/cubic foot) is multiplied by the emission factor for particulate (6.2 lbs/mm cubic feet) AP-42 section 1.4 Table 1.4-2 (7/98).

- ii. particulate from dryer

The maximum hourly drying rate of the emissions unit (12.5 tons) is multiplied by an emission factor for particulate 0.22 lb/ton, AP-42 section 9.9.1 Table 9.9.1-1, (5/98). The result, 2.75 pounds, is then multiplied by an estimated 99% overall control efficiency (1-.99).

b. Emission Limitation-

0.49 ton/yr particulate

Applicable Compliance Method-

Compliance shall be determine by totaling the following products:

i. particulate from fuel

The maximum annual gas burning rate of the emissions unit (120.45 mm cubic feet) is multiplied by an emission factor for particulate (6.2 lbs/mm cubic feet) AP-42 section 1.4 Table 1.4-2 (7/98) and dividing by 2,000 lbs/ton.

ii. particulate from dryer

The maximum annual drying rate of the emissions unit (109,500 tons) is multiplied by an emission factor for particulate (0.22 lb/ton) AP-42 section 9.9.1 Table 9.9.1-1, (5/98). The result, 24,090 pounds, is then multiplied by an estimated 99% overall control efficiency (1-.99) and divided by 2,000 lbs/ton.

c. Emission Limitation-

2.9 lbs/hr NO_x

Applicable Compliance Method-

Compliance shall be based upon multiplying the maximum gas burning rate of the emissions unit (0.029 mm cubic feet/hr) by an emission factor for NO_x (100 mm cubic feet) AP-42 section 1.4 Table 1.4-1 (7/98).

d. Emission Limitation-

6.0 tons/yr NO_x

Applicable Compliance Method-

Compliance shall be determined by multiplying a maximum annual gas burning rate of the emissions unit (120.45 mm cubic feet) by an emission factor for NO_x (100 lbs/mm cubic feet) AP-42 section 1.4 Table 1.4-1.(7/98) and dividing by 2,000 pounds per ton.

e. Emission Limitation-

2.44 lbs/hr CO

Applicable Compliance Method-

Compliance shall be based upon multiplying the maximum hourly gas burning rate of the emissions unit (0.029 mm cubic feet/hr) by an emission factor for CO (84 mm cubic feet) AP-42 section 1.4 Table 1.4-1 (7/98).

f. Emission Limitation-

5.06 tons/yr CO

Applicable Compliance Method-

Compliance shall be determined by multiplying a maximum annual gas burning rate of the emissions unit (120.45 mm cubic feet) by an emission factor for CO (84 lbs/mm cubic feet) AP-42 section 1.4 Table 1.4-1.(7/98) and dividing by 2,000 pounds per ton.

F. Miscellaneous Requirements

1. This permit represents a modification to this emissions unit from PTI 08-3695, issued July 16, 1997.

PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S) [Continued]

A. Applicable Emissions Limitations and/or Control Requirements

1. The specific operations(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 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>
Product cooler with cyclone (cyclone located and exhausting inside building)	OAC rule 3745-31-05	0.56 ton/yr particulate; totally enclosed area maintained under negative pressure with ventilation to biofilter

2. **Additional Terms and Conditions**

- 2.a None.

B. Operational Restrictions

None.

C. Monitoring and/or Recordkeeping Requirements

None.

D. Reporting Requirements

None.

E. Testing Requirements

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

- a. Emission Limitation-

0.56 ton/yr particulate

Applicable Compliance Method-

Compliance is based upon a maximum annual grain cooling rate of 74,460 tons multiplied by an AP-42 (5/98) emission factor of 0.15 lb/ton. The result, 11,169 pounds is then multiplied by an estimated 90% control efficiency for the biofilter (1-.90) and divided by 2,000 lbs/ton.

Compliance shall be based upon the area being enclosed and maintained under negative pressure, and no visible fugitive emissions.

b. Emission Limitation-

no visible emissions

Applicable Compliance Method-

Compliance shall be determined by visible emission evaluations using the methods and procedures specified in USEPA Method 22.

F. Miscellaneous Requirements

1. This permit represents a modification to this emissions unit from PTI 08-3695, issued July 16,1997.

PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S) [Continued]

A. Applicable Emissions Limitations and/or Control Requirements

1. The specific operations(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 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>
Product loadout into storage bins and loadout into trucks with baghouse	OAC rule 3745-31-05	0.043 lb/hr and 0.024 ton/yr particulate; totally enclosed loadout area with exhaust to fabric filter; visible emissions not to exceed 10% opacity as a 6-minute average
	OAC rule 3745-17-11	The limit based on this rule is less stringent than the limit established by OAC rule 3745-31-05 above

2. **Additional Terms and Conditions**

- 2.a The maximum annual production rate (loadout) for this plant shall not exceed 55,250 tons.

B. Operational Restrictions

1. The pressure drop across the baghouse shall be maintained within the range of (to be established) inches of water while the emissions unit is in operation.

C. Monitoring and/or Recordkeeping Requirements

1. The permittee shall maintain monthly records of the amount (tons) of product (loadout) at this plant.
2. The permittee shall properly install, operate, and maintain equipment to monitor the pressure drop across the baghouse while the emissions unit is in operation. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendation, instructions, and operating manual(s). The permittee shall record the pressure drop across the baghouse once per shift.

D. Reporting Requirements

1. The permittee shall submit annual reports which identify any exceedances of the annual production rate (loadout) limitation, as well as the corrective actions that were taken to achieve compliance. These reports shall be submitted by January 31 of each year.
2. The permittee shall submit quarterly pressure drop deviation (excursion) reports according to General Terms and Conditions A.2. that identify that all periods of time during which the pressure drop across the baghouse did not comply with the allowable range specified above.

E. Testing Requirements

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

- a. Emission Limitation-

0.043 lb/hr particulate

Applicable Compliance Method-

Compliance shall be based upon multiplying the maximum hourly loadout rate of 50.2 tons, by an emission factor for particulate (0.086 lb/ton) AP-42 section 9.9.1 Table 9.9.1-1 (7/98). The result, 4.32 lbs, is then multiplied by a control efficiency of 99%(1-.99).

- b. Emission Limitation-

0.024 ton/yr particulate

Applicable Compliance Method-

Compliance shall be based on the recordkeeping in section C.1, summing the 12 monthly records for the calendar year (tons), multiplying by an emission factor for particulate (0.086 lb/ton) AP-42 section 9.9.1 Table 9.9.1-1. (7/98). The result will then be multiplied by a control efficiency of 99% (1-.99) and dividing by 2,000 lbs/ton.

- c. Emission Limitation-

10 % opacity as a 6-minute average

Applicable Compliance Method-

OAC rule 3745-17-03(B)(3), using the methods and procedures specified in USEPA Method 9.

F. Miscellaneous Requirements

1. This permit represents a modification to this emissions unit from PTI 08-3695 issued July 16, 1997.