



State of Ohio Environmental Protection Agency

**RE: FINAL PERMIT TO INSTALL
HURON COUNTY**

CERTIFIED MAIL

Street Address:

Lazarus Gov. Center TELE: (614) 644-3020 FAX: (614) 644-2329

Mailing Address:

Lazarus Gov.
Center

Application No: 03-13369

DATE: 11/29/2001

Central Soya Company Inc
Ray Bowns
P O Box 369
Bellevue, OH 44811

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 Directors 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
Field Operations and Permit Section
Division of Air Pollution Control

CC: USEPA

NWDO



Permit To Install

STATE OF OHIO ENVIRONMENTAL PROTECTION AGENCY

FINAL PERMIT TO INSTALL 03-13369

Application Number: 03-13369
APS Premise Number: 0339010005
Permit Fee: **\$26800**
Name of Facility: Central Soya Company Inc
Person to Contact: Ray Bowns
Address: P O Box 369
Bellevue, OH 44811

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

605 Goodrich Rd
Bellevue, Ohio

Description of proposed emissions unit(s):

Facility expansion including modifications to the elevator, specialty extraction operation and SPC plant and the addition of several new units (boiler, new conventional extraction operation).

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. State and Federally Enforceable Permit To Install General Terms and Conditions

1. Monitoring and Related Recordkeeping and Reporting Requirements

- a. Except as may otherwise be provided in the terms and conditions for a specific emissions unit, the permittee shall maintain records that include the following, where applicable, for any required monitoring under this permit:
 - i. The date, place (as defined in the permit), and time of sampling or measurements.
 - ii. The date(s) analyses were performed.
 - iii. The company or entity that performed the analyses.
 - iv. The analytical techniques or methods used.
 - v. The results of such analyses.
 - vi. The operating conditions existing at the time of sampling or measurement.
- b. 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.
- c. Except as may otherwise be provided in the terms and conditions for a specific emissions unit, the permittee shall submit required reports in the following manner:
 - i. Reports of any required monitoring and/or recordkeeping of federally enforceable information shall be submitted to the appropriate Ohio EPA District Office or local air agency.
 - ii. Quarterly written reports of (i) any deviations from federally enforceable emission limitations, operational restrictions, and control device operating parameter limitations, excluding deviations resulting from malfunctions reported in accordance with OAC rule 3745-15-06, that have been detected by the testing, monitoring and recordkeeping requirements specified in this permit, (ii) the probable cause of such deviations, and (iii) any corrective actions or preventive measures taken, shall be made to the appropriate Ohio EPA District Office or local air agency. The written 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. See B.10 below if no deviations occurred during the quarter.

- iii. Written reports, which identify any deviations from the federally enforceable monitoring, recordkeeping, and reporting requirements contained in this permit shall be submitted to the appropriate Ohio EPA District Office or local air agency every six months, i.e., by January 31 and July 31 of each year for the previous six calendar months. If no deviations occurred during a six-month period, the permittee shall submit a semi-annual report, which states that no deviations occurred during that period.
- iv. Each written report shall be signed by a responsible official certifying that, based on information and belief formed after reasonable inquiry, the statements and information in the report are true, accurate, and complete.

2. 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, i.e., upset, 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. (The definition of an upset condition shall be the same as that used in OAC rule 3745-15-06(B)(1) for a malfunction.) The verbal and written reports shall be submitted pursuant to 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 emission unit(s) that is (are) served by such control system(s).

3. Risk Management Plans

If the permittee is required to develop and register a risk management plan pursuant to section 112(r) of the Clean Air Act, as amended, 42 U.S.C. 7401 et seq. ("Act"), the permittee shall comply with the requirement to register such a plan.

4. Title IV Provisions

If the permittee is subject to the requirements of 40 CFR Part 72 concerning acid rain, the permittee shall ensure that any affected emissions unit complies with those requirements. Emissions exceeding any allowances that are lawfully held under Title IV of the Act, or any regulations adopted thereunder, are prohibited.

5. Severability Clause

A determination that any term or condition of this permit is invalid shall not invalidate the force or effect of any other term or condition thereof, except to the extent that any other term or condition depends in whole or in part for its operation or implementation upon the term or condition declared invalid.

6. General Requirements

- a. The permittee must comply with all terms and conditions of this permit. Any noncompliance with the federally enforceable terms and conditions of this permit constitutes a violation of the Act, and is grounds for enforcement action or for permit revocation, revocation and reissuance, or modification, or for denial of a permit renewal application.
- b. It shall not be a defense for the permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the federally enforceable terms and conditions of this permit.
- c. This permit may be modified, reopened, revoked, or revoked and reissued, for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or revocation, or of a notification of planned changes or anticipated noncompliance does not stay any term and condition of this permit.
- d. This permit does not convey any property rights of any sort, or any exclusive privilege.
- e. 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 request, the permittee shall also furnish to the Director or an authorized representative of the Director, copies of records required to be kept by this permit. For information claimed to be confidential in the submittal to the Director, if the Administrator of the U.S. EPA requests such information, the permittee may furnish such records directly to the Administrator along with a claim of confidentiality.

7. 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.

8. Federal and State Enforceability

Only those terms and conditions designated in this permit as federally enforceable, that are

required under the Act, or any of its applicable requirements, including relevant provisions designed to limit the potential to emit of a source, are enforceable by the Administrator of the U.S. EPA, the State, and citizens under the Act. All other terms and conditions of this permit shall not be federally enforceable and shall be enforceable under State law only.

9. Compliance Requirements

- a. Any document (including reports) required to be submitted and required by a federally applicable requirement in this permit shall include a certification by a responsible official that, based on information and belief formed after reasonable inquiry, the statements in the document are true, accurate, and complete.
- b. Upon presentation of credentials and other documents as may be required by law, the permittee shall allow the Director of the Ohio EPA or an authorized representative of the Director to:
 - i. At reasonable times, enter upon the permittee's premises where a source is located or the emissions-related activity is conducted, or where records must be kept under the conditions of this permit.
 - ii. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit, subject to the protection from disclosure to the public of confidential information consistent with ORC section 3704.08.
 - iii. Inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit.
 - iv. As authorized by the Act, sample or monitor at reasonable times substances or parameters for the purpose of assuring compliance with the permit and applicable requirements.
- c. The permittee shall submit progress reports to the appropriate Ohio EPA District Office or local air agency concerning any schedule of compliance for meeting an applicable requirement. Progress reports shall be submitted semiannually, or more frequently if specified in the applicable requirement or by the Director of the Ohio EPA. Progress reports shall contain the following:
 - i. Dates for achieving the activities, milestones, or compliance required in any schedule of compliance, and dates when such activities, milestones, or compliance were achieved.
 - ii. An explanation of why any dates in any schedule of compliance were not or will not be met, and any preventive or corrective measures adopted.

10. Permit To Operate Application

- a. If the permittee is required to apply for a Title V permit pursuant to OAC Chapter 3745-77, the permittee shall submit a complete Title V permit application or a complete Title V permit modification application within twelve (12) months after commencing operation of the emissions units covered by this permit. However, if the proposed new or modified source(s) would be prohibited by the terms and conditions of an existing Title V permit, a Title V permit modification must be obtained before the operation of such new or modified source(s) pursuant to OAC rule 3745-77-04(D) and OAC rule 3745-77-08(C)(3)(d).
- b. If the permittee is required to apply for permit(s) pursuant to OAC Chapter 3745-35, the source(s) identified in this Permit To Install is (are) permitted to operate for a period of up to one year from the date the source(s) commenced operation. 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 source(s) covered by this permit.

11. 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.

B. State Only Enforceable 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 of state-only enforceable 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 state-only required 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. 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.

4. 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.

5. 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.

6. 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 cannot meet the requirements of this permit 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 cannot meet the requirements of this permit or cannot meet applicable standards.

7. 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.

8. 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).

9. 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.

10. Additional Reporting Requirements When There Are No Deviations of Federally Enforceable Emission Limitations, Operational Restrictions, or Control Device Operating Parameter Limitations (See Section A of This Permit)

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.

C. 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)

<u>Pollutant</u>	<u>Tons Per Year</u>
particulate emissions (PE)	170.6
volatile organic compounds (VOC)	2187.81 (an increase of 772.9 tpy)
carbon monoxide (CO)	58.83
sulfur dioxide (SO ₂)	26.29
nitrogen oxides (NO _x)	30.93

12

Central Soya Company Inc
PTI Application: **03-13369**
Issued: 11/29/2001

Facility ID: **0339010005**

13

Centra

PTI A₁

Issued: 11/29/2001

Emissions Unit ID: B011

Part II - FACILITY SPECIFIC TERMS AND CONDITIONS

A. State and Federally Enforceable Permit To Install Facility Specific Terms and Conditions

None

B. State Only Enforceable Permit To Install Facility Specific Terms and Conditions

None

Part III - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)**A. State and Federally Enforceable Section****I. 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>
B011 - 91.2 mmBtu/hour natural gas-fired boiler with No. 2 oil backup (86.9 mmBtu/hour)	OAC rule 3745-31-10 through 20 OAC rule 3745-31-05(A)(3)

OAC rule 3745-31-05(D)

	<u>Applicable Emissions Limitations/Control Measures</u>	<u>long-term emissions from natural gas and/or number 2 fuel oil combustion:</u>
OAC rule 3745-17-10(B)	see A.I.2.a	2.06 tons PE/year
OAC rule 3745-17-07(A)	see A.I.2.b	53.4 tons CO/year 5.17 tons VOC/year
OAC rule 3745-18-06(A)	<u>short-term emissions from natural gas combustion:</u>	The requirements of this rule also include compliance with the requirements of OAC rules 3745-31-05(D), 3745-17-07(A) and 40 <u>CFR</u> Part 60, Subpart Dc.
OAC rule 3745-18-06(D)	0.46 pound particulate emissions (PE)/hour	when number 2 fuel oil is combusted, 26.2 tons SO ₂ /rolling 12-month period (see A.I.2.g)
40 <u>CFR</u> Part 60, Subpart Dc	12.2 pounds carbon monoxide (CO)/hour	when number 2 fuel oil is combusted, 22.7 tons NO _x /rolling 12-month period (see A.I.2.g)
	0.055 pound sulfur dioxide (SO ₂)/hour	see A.I.2.c
	3.21 pounds nitrogen oxides (NO _x)/hour	When natural gas is combusted, visible PE shall not exceed 20 percent opacity, as a six-minute average, except as otherwise provided by rule (see A.I.2.c for No. 2 fuel oil combustion).
	0.65 pound volatile organic compounds (VOC)/hour	see A.I.2.d
	<u>short-term emissions from number 2 fuel oil combustion:</u>	see A.I.2.e
	0.47 pound PE/hour	When combusting number 2 fuel oil:
	11.8 pounds CO/hour	visible PE shall not exceed 20 percent opacity, as a six-minute average, except for one six-minute period per hour during which visible PE shall not exceed 27 percent opacity. {see section A.I.2.e}.
	18.2 pounds SO ₂ /hour (0.21 pound/mmBtu)	
	9.21 pounds NO _x /hour	
	1.18 pounds VOC/hour	

16

Central Soya Company Inc
PTI Application: **02 12260**
Issued

Facility ID: **0339010005**

Emissions Unit ID: B011

2. Additional Terms and Conditions

- 2.a Based on the "Prevention of Significant Deterioration" (PSD) Analysis conducted to ensure the application of "Best Available Control Technology" (BACT), it has been determined that no control technologies for VOC and PE would be cost-effective.
- 2.b The permittee shall employ best available technology (BAT) on this emissions unit. BAT has been determined to be the use of low-NO_x burners. The requirements of this rule also include compliance with the requirements of OAC rule 3745-31-05(D) and OAC rule 3745-17-07(A).
- 2.c The particulate emission (PE) limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
- 2.d This emissions unit is exempt from the sulfur dioxide emission limitations when employing natural gas as long as the heat content is greater than 950 Btu/standard cubic foot and the sulfur content is less than 0.6 pound/million standard cubic feet.
- 2.e The SO₂ emission limitation specified by this rule is less stringent than the limitation established pursuant to OAC rule 3745-31-05(A)(3).
- 2.f The opacity standards shall apply at all times except during periods of startup, shutdown or malfunction.
- 2.g The permittee has requested federally enforceable limitations of 26.36 tons SO₂ and 22.7 tons NO_x per rolling 12-month period based on fuel usage restrictions (see A.II.2).
- 2.h The application and enforcement of the provisions of the New Source Performance Standards (NSPS), as promulgated by the United States Environmental Protection Agency, 40 CFR Part 60, are delegated to the Ohio Environmental Protection Agency. The requirements for 40 CFR Part 60 are also federally enforceable.

II. Operational Restrictions

1. The permittee shall burn only natural gas and/or number two fuel oil in this emissions unit.
2. The maximum number 2 fuel oil usage rate in this emissions unit shall not exceed 1,787,000 gallons/year, based upon a rolling, 12-month summation of the usage rates.

To ensure enforceability during the first 12 calendar months of operation following issuance of

18

Centra

PTI A₁

Issued: 11/29/2001

Emissions Unit ID: B011

this permit, the permittee shall not exceed the usage rates specified in the following table:

<u>Month</u>	<u>Maximum Allowable Cumulative Number 2 Fuel Oil Usage Rates</u>
1	447,000 gallons
1-2	894,000 gallons
1-3	1,341,000 gallons
1-4	1,787,000 gallons
1-5	1,787,000 gallons
1-6	1,787,000 gallons
1-7	1,787,000 gallons
1-8	1,787,000 gallons
1-9	1,787,000 gallons
1-10	1,787,000 gallons
1-11	1,787,000 gallons
1-12	1,787,000 gallons

After the first 12 calendar months of operation following issuance of this permit, compliance with the 1,787,000 gallons annual number 2 fuel oil usage rate limitation shall be based upon a rolling, 12-month summation of the usage rates.

3. As an alternative to compliance with the limitation of 0.21 pound/million BTU while employing number 2 fuel oil, the permittee may opt to burn oil in emissions unit B011 that does not contain greater than 0.5 weight percent sulfur.
4. The quality of the oil burned in this emissions unit (on an "as received" basis) shall either comply with the 0.5 weight percent sulfur option in condition A.II.3 of the terms and conditions of this permit or meet both of the following:
 - a. a sulfur content which is sufficient to comply with the allowable sulfur dioxide emission limitation of 0.21 pound/million BTU actual heat input; and
 - b. greater than 140,000 BTU/gallon of oil.

Note: Fuel sulfur content and heat content (BTU/gallon) shall be determined by using the analytical results provided by the permittee or oil supplier for each shipment of oil.

III. Monitoring and/or Recordkeeping Requirements

1. For each day during which the permittee burns a fuel other than natural gas and/or number 2 fuel oil, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.

Central Soya Company Inc
PTI Application: **02 12260**
Issued

Facility ID: **0339010005**

Emissions Unit ID: B011

2. The permittee shall collect and record the following information for each month for this emissions unit:

Issued: 11/29/2001

- a. the quantity of natural gas combusted, in million cubic feet;
- b. the quantity of number 2 fuel oil combusted, in gallons;
- c. copies of the analytical results provided by the permittee or oil supplier for each shipment of oil;
- d. the weight percent sulfur in each shipment of oil;
- e. the sulfur dioxide emission rate, in pounds sulfur dioxide/million BTU, calculated in accordance with the provisions of OAC rule 3745-18-04(F)(2), from each shipment of oil received that exceeds a 0.2 weight percent sulfur;
- f. beginning after the first 12 calendar months of operation following issuance of this permit, the rolling, 12-month summation of the number 2 fuel oil usage rates; and
- g. beginning after the first 12 calendar months of operation following issuance of this permit, the rolling, 12-month sulfur dioxide and nitrogen oxide emission rates.

Also, during the first 12 calendar months of operation following issuance of this permit, the permittee shall record the cumulative number 2 fuel oil usage rate for each calendar month.

3. For each shipment of oil, the permittee shall obtain a fuel supplier certification which includes the following information:
 - a. the name of the oil supplier; and
 - b. a statement from the oil supplier that the oil complies with the specifications under the definition of distillate oil in 40 CFR Part 60, section 60.41c.

IV. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than natural gas and/or number 2 fuel oil was burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.
2. The permittee shall submit deviation (excursion) reports that identify all exceedances of the rolling, 12-month number 2 fuel oil usage rate limitation and, for the first 12 calendar months of operation following issuance of this permit, all exceedances of the maximum allowable cumulative production levels. This deviation report shall be submitted in accordance with the General Terms

Issued: 11/29/2001

and Conditions of this permit.

3. The permittee shall submit deviation (excursion) reports which identify all exceedances of the rolling, 12-month emission limitations for sulfur dioxide and nitrogen oxides.
4. Pursuant to the general provisions of NSPS, the source owner/operator is hereby advised of the requirement to report the following at the appropriate times for emissions unit B011:
 - a. construction date (no later than 30 days after such date);
 - b. anticipated start-up date (not more than 60 days or less than 30 days prior to such date);
 - c. actual start-up date (within 15 days after such date); and
 - d. date of performance testing (if required, at least 30 days prior to testing).

This notification shall also include, in accordance with section 60.48c (a)(1), the design heat input capacity and identification of fuels to be combusted in emissions unit B011.

Reports are to be sent to:

Ohio Environmental Protection Agency
DAPC-Permit Management Unit
Lazarus Government Center
P.O. Box 1049
Columbus, OH 43216-1049

and

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

V. Testing Requirements

1. Compliance Methods Requirements: Compliance with the emission limitation(s) in section A.I of the terms and conditions of this permit shall be determined in accordance with the following method(s):
 - a. Emission Limitation:
0.46 pound PE/hour - from natural gas combustion

Applicable Compliance Method:

The permittee shall demonstrate compliance with this emission limitation by multiplying the maximum heat input to the boiler (91.2 mmBtu/hour) by the manufacturer's guaranteed emission rate (0.005 pound PE/mmBtu). If required, the permittee shall demonstrate compliance with this emission limitation through the test method specified in 40 CFR Part 60, Appendix A.

- b. Emission Limitation:
12.2 pounds CO/hour - from natural gas combustion

Emissions Unit ID: B011

Applicable Compliance Method:

The permittee shall demonstrate compliance with this emission limitation by multiplying the maximum air ratio of 81,000 pounds air/hour by the manufacturer's guaranteed emission rate (150 pounds CO/1,000,000 pounds air). If required, the permittee shall demonstrate compliance with this emission limitation through the test method specified in 40 CFR Part 60, Appendix A.

- c. Emission Limitation:
0.055 pound SO₂/hour - from natural gas combustion

Applicable Compliance Method:

The permittee shall demonstrate compliance with this emission limitation by multiplying the maximum quantity of natural gas combusted in the boiler (96,000 cubic feet/hour) by the appropriate emission factor from AP-42 Table 1.4-2, revised 7/98 (0.6 pound SO₂/million cubic feet). If required, the permittee shall demonstrate compliance with this emission limitation through the test method specified in 40 CFR Part 60, Appendix A.

- d. Emission Limitation:
3.21 pounds NO_x/hour - from natural gas combustion

Applicable Compliance Method:

The permittee shall demonstrate compliance with this emission limitation by multiplying the maximum heat input to the boiler (91.2 mmBtu/hour) by the company-provided emission factor per test data (0.0352 pound NO_x/mmBtu). If required, the permittee shall demonstrate compliance with this emission limitation through the test method specified in 40 CFR Part 60, Appendix A.

- e. Emission Limitation:
0.65 pound VOC/hour - from natural gas combustion

Applicable Compliance Method:

The permittee shall demonstrate compliance with this emission limitation by multiplying the maximum air ratio of 81,000 pounds air/hour by the manufacturer's guaranteed emission rate (8 pounds VOC/1,000,000 pounds air). If required, the permittee shall demonstrate compliance with this emission limitation through the test method specified in 40 CFR Part 60, Appendix A.

- f. Emission Limitation:
0.47 pound PE/hour - from number 2 fuel oil combustion

Applicable Compliance Method:

The permittee shall demonstrate compliance with this emission limitation by multiplying the maximum heat input to the boiler (86.9 mmBtu/hour) by the company-provided emission factor per test data (0.0054 pound PE/mmBtu). If required, the permittee shall demonstrate compliance with this emission limitation through the test method specified in

40 CFR Part 60, Appendix A.

- g. Emission Limitation:
11.8 pounds CO/hour - from number 2 fuel oil combustion

Applicable Compliance Method:

The permittee shall demonstrate compliance with this emission limitation by multiplying the maximum air ratio of 78,700 pounds air/hour by the manufacturer's guaranteed emission rate (150 pounds CO/1,000,000 pounds air). If required, the permittee shall demonstrate compliance with this emission limitation through the test method specified in 40 CFR Part 60, Appendix A.

- h. Emission Limitation:
18.2 pounds SO₂/hour - from number 2 fuel oil combustion

Applicable Compliance Method:

The permittee shall demonstrate compliance with this emission limitation by multiplying the maximum heat input to the boiler (86.9 mmBtu/hour) by the manufacturer's guaranteed emission rate (0.21 pound SO₂/mmBtu). If required, the permittee shall demonstrate compliance with this emission limitation through the test method specified in 40 CFR Part 60, Appendix A.

- i. Emission Limitation:
9.21 pounds NO_x/hour - from number 2 fuel oil combustion

Applicable Compliance Method:

The permittee shall demonstrate compliance with this emission limitation by multiplying the maximum heat input to the boiler (86.9 mmBtu/hour) by the company-provided emission factor per test data (0.106 pound NO_x/mmBtu). If required, the permittee shall demonstrate compliance with this emission limitation through the test method specified in 40 CFR Part 60, Appendix A.

- j. Emission Limitation:
1.18 pounds VOC/hour - from number 2 fuel oil combustion

Applicable Compliance Methods:

The permittee shall demonstrate compliance with this emission limitation by multiplying the maximum air ratio of 78,700 pounds air/hour by the manufacturer's guaranteed emission rate (15 pounds VOC/1,000,000 pounds air). If required, the permittee shall demonstrate compliance with this emission limitation through the test method specified in

26

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PTI A₁

Issued: 11/29/2001

Emissions Unit ID: B011

40 CFR Part 60, Appendix A.

Emissions Unit ID: B011

- k. Emission Limitation:
2.06 tons PE/year, 53.4 tons CO/year, 5.17 tons VOC/year
- Applicable Compliance Method:
The tons/year emission limitations were developed by multiplying each of the pound/hour limitations (from natural gas or number 2 fuel oil usage, whichever was greater) by the maximum operating schedule of 8,760 hours/year and dividing by 2000 pounds/ton. Therefore, provided compliance is shown with the hourly limitation, compliance will also be shown with the annual limitation.
- l. Emission Limitation:
26.2 tons SO₂/rolling 12-month period and 22.7 tons NO_x/rolling 12-month period from number 2 fuel oil combustion
- Applicable Compliance Method:
The permittee shall demonstrate compliance with this emission limitation through the record keeping required in section A.III.2.
- m. Emission Limitation:
visible PE shall not exceed 20 percent opacity, as a six-minute average - when combusting natural gas
- Applicable Compliance Method:
If required, the permittee shall demonstrate compliance in accordance with OAC rule 3745-17-03(B)(1).
- n. Emission Limitation
visible PE shall not exceed 20 percent opacity, as a six-minute average, except for one six-minute period per hour during which visible PE shall not exceed 27 percent opacity - when combusting number 2 fuel oil
- Applicable Compliance Method:
If required, Method 9, which is located in 40 CFR Part 60, Appendix A and the procedures in 40 CFR 60.11 shall be used to determine opacity.
- o. Emission Limitation:
0.21 pound SO₂/mmBtu or the permittee shall be limited to 0.2 percent by weight sulfur in the oil
- Applicable Compliance Method:
The permittee has indicated that it will always use number 2 fuel oil with a sulfur content of less than or equal to 0.2 percent, by weight. Therefore, the permittee shall demonstrate compliance with this emission limitation through the record keeping required in section A.III.2.

28

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PTI A₁

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Emissions Unit ID: B011

VI. Miscellaneous Requirements

None

B. State Only Enforceable Section

I. 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>
B011 - 91.2 mmBtu/hour natural gas-fired boiler with No. 2 oil backup (86.9 mmBtu/hour)	None	None

2. Additional Terms and Conditions

2.a None

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

30

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PTI A₁

Issued: 11/29/2001

Emissions Unit ID: B011

None

Part III - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)

A. State and Federally Enforceable Section

I. 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>
F005 - truck and rail grain receiving (no. 3 grain dump), with choke flow, partial enclosure and baghouses (modification). The modification involves the increase of throughput through the emissions unit.	OAC rule 3745-31-10 through 20	control requirements (see A.I.2.a)
	OAC rule 3745-31-05(A)(3)	see A.I.2.b
	OAC rule 3745-17-08(A)	see A.I.2.c
	OAC rule 3745-17-07(B)	see A.I.2.d
	40 <u>CFR</u> Part 60, Subpart DD	visible PE shall not exceed 5 percent opacity

2. Additional Terms and Conditions

- 2.a The permittee shall employ best available control technology (BACT) on this emissions unit. BACT has been determined to be the use of choke flow and a partial (2-sided) enclosure (combined 90 percent emissions reduction) and 2 baghouses (one for rail receiving and one for truck receiving) with a removal efficiency of 99.9 percent.

- 2.b The requirements of this rule also include compliance with the requirements of OAC rules 3745-31-10 through 20, and 40 CFR Part 60, Subpart DD.
- 2.c This facility is not located within the areas identified in "Appendix A" of OAC rule 3745-17-08 (it is located in Huron County). Therefore, the requirements of OAC rule 3745-17-08(B) do not apply to this emissions unit.
- 2.d This emissions unit is exempt from the visible particulate emission limitations specified in OAC rule 3745-17-07(B) pursuant to OAC rule 3745-17-07(B)(11)(e).
- 2.e The application and enforcement of the provisions of the New Source Performance Standards (NSPS), as promulgated by the United States Environmental Protection Agency, 40 CFR Part 60, are delegated to the Ohio Environmental Protection Agency. The requirements for 40 CFR Part 60 are also federally enforceable.

II. Operational Restrictions

- 1. The pressure drop across each baghouse shall be maintained within the range of 1-6 inches of water while the emissions unit is in operation.

III. Monitoring and/or Recordkeeping Requirements

- 1. The permittee shall properly install, operate, and maintain equipment to monitor the pressure drop across each baghouse while the emissions unit is in operation. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop across each baghouse on a weekly basis.
- 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 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 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 eliminate the visible emissions.

33

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PTI A₁

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Emissions Unit ID: F005

IV. Reporting Requirements

1. The permittee shall submit pressure drop deviation (excursion) reports that identify all periods of time during which the pressure drop across either baghouse did not comply with the allowable range specified in section A.II.1 of the terms and conditions of this permit. This deviation report shall be submitted in accordance with the General Terms and Conditions of this permit.
2. Pursuant to the general provisions of NSPS, the source owner/operator is hereby advised of the requirement to report the following at the appropriate times for emissions unit F005:
 - a. construction date (no later than 30 days after such date);
 - b. anticipated start-up date (not more than 60 days or less than 30 days prior to such date);
 - c. actual start-up date (within 15 days after such date); and
 - d. date of performance testing (if required, at least 30 days prior to testing).

This notification shall also include, in accordance with section 60.48c (a)(1), the design heat input capacity and identification of fuels to be combusted in emissions unit F005.

Reports are to be sent to:

Ohio Environmental Protection Agency
DAPC-Permit Management Unit
Lazarus Government Center
P.O. Box 1049
Columbus, OH 43216-1049

and

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

3. The permittee shall submit semiannual written reports which (a) identify all days during which any visible particulate emissions were observed from the stack serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate 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 6-month period.

V. Testing Requirements

Emissions Unit ID: F005

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

- a. Emission Limitation:
0.019 pound stack particulate emissions (PE)/hour, 0.08 ton stack PE/year

Applicable Compliance Method:

The permittee shall demonstrate compliance with this emission limitation by multiplying the maximum throughput (tons/hour) by the appropriate emission factor from AP-42 Table 9.9.1-1, revised 5/98, (0.035 pound PE/ton). This value is then multiplied by the capture efficiency (0.90) then by the control efficiency (1-.999). If required, the permittee shall demonstrate compliance with this emission limitation through the test method specified in 40 CFR Part 60, Appendix A.

The tons/year emission limitation was developed by multiplying the pound/hour limitation by the maximum operating schedule of 8,760 hours/year and dividing by 2000 pounds/ton. Therefore, provided compliance is shown with the hourly limitation, compliance will also be shown with the annual limitation.

- b. Emission Limitation:
9.20 tons fugitive PE/year

Applicable Compliance Method:

The permittee shall demonstrate compliance with this emission limitation by multiplying the maximum throughput (tons/hour) by the appropriate emission factor from AP-42 Table 9.9.1-1, revised 5/98, (0.035 pound PE/ton). If required, the permittee shall demonstrate compliance with this emission limitation through the test method specified in 40 CFR Part 60, Appendix A.

The tons/year emission limitation was developed by multiplying the pound/hour limitation by the maximum operating schedule of 8,760 hours/year and dividing by 2000 pounds/ton. Therefore, provided compliance is shown with the hourly limitation, compliance will also be shown with the annual limitation.

- c. Emission Limitation:
visible PE shall not exceed 5 percent opacity

Applicable Compliance Method:

If required, Method 9, which is located in 40 CFR Part 60, Appendix A and the procedures in 40 CFR 60.11 shall be used to determine opacity.

VI. Miscellaneous Requirements

37

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PTI A₁

Issued: 11/29/2001

Emissions Unit ID: F005

None

B. State Only Enforceable Section

I. 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>
F005 - truck and rail grain receiving (no. 3 grain dump), with choke flow, partial enclosure and baghouses (modification). The modification involves the increase of throughput through the emissions unit.	None	None

2. Additional Terms and Conditions

2.a None

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)**A. State and Federally Enforceable Section****I. 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>
F006 - truck grain receiving (no. 1 truck dump), with choke flow, partial enclosure and baghouse (modification). The modification involves the increase of throughput through the emissions unit.	OAC rule 3745-31-10 through 20	control requirements (see A.I.2.a)
	OAC rule 3745-31-05(A)(3)	see A.I.2.b 0.073 pound stack particulate emissions (PE)/hour, 0.32 ton PE/year 35.5 tons fugitive PE/year
	OAC rule 3745-17-08(A)	see A.I.2.c
	OAC rule 3745-17-07(B)	see A.I.2.d
	40 <u>CFR</u> Part 60, Subpart DD	visible fugitive PE shall not exceed 5 percent opacity

2. Additional Terms and Conditions

- 2.a The permittee shall employ best available control technology (BACT) on this emissions unit. BACT has been determined to be the use of choke flow and a partial (2-sided) enclosure (combined 90 percent emissions reduction) and a baghouse with a removal efficiency of 99.9 percent.
- 2.b The requirements of this rule also include compliance with the requirements of OAC rules 3745-31-10 through 20, and 40 CFR Part 60, Subpart DD.
- 2.c This facility is not located within the areas identified in "Appendix A" of OAC rule 3745-17-08 (it is located in Huron County). Therefore, the requirements of OAC rule 3745-17-08(B) do not apply to this emissions unit.
- 2.d This emissions unit is exempt from the visible particulate emission limitations specified in OAC rule 3745-17-07(B) pursuant to OAC rule 3745-17-07(B)(11)(e).
- 2.e The application and enforcement of the provisions of the New Source Performance Standards (NSPS), as promulgated by the United States Environmental Protection Agency, 40 CFR Part 60, are delegated to the Ohio Environmental Protection Agency. The requirements for 40 CFR Part 60 are also federally enforceable.

II. Operational Restrictions

- 1. The pressure drop across the baghouse shall be maintained within the range of 1-6 inches of water while the emissions unit is in operation.

III. Monitoring and/or Recordkeeping Requirements

- 1. 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 recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop across the baghouse on a weekly basis.
- 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 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 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 eliminate the visible emissions.

IV. Reporting Requirements

1. The permittee shall submit pressure drop deviation (excursion) reports that identify all periods of time during which the pressure drop across the baghouse did not comply with the allowable range specified in section A.II.1 of the terms and conditions of this permit. This deviation report shall be submitted in accordance with the General Terms and Conditions of this permit.
2. Pursuant to the general provisions of NSPS, the source owner/operator is hereby advised of the requirement to report the following at the appropriate times for emissions unit F006:
 - a. construction date (no later than 30 days after such date);
 - b. anticipated start-up date (not more than 60 days or less than 30 days prior to such date);
 - c. actual start-up date (within 15 days after such date); and
 - d. date of performance testing (if required, at least 30 days prior to testing).

This notification shall also include, in accordance with section 60.48c (a)(1), the design heat input capacity and identification of fuels to be combusted in emissions unit F006.

Reports are to be sent to:

Ohio Environmental Protection Agency
DAPC-Permit Management Unit
Lazarus Government Center
P.O. Box 1049
Columbus, OH 43216-1049

and

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

3. The permittee shall submit semiannual written reports which (a) identify all days during which any visible particulate emissions were observed from the stack serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate 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 6-month period.

V. Testing Requirements

Emissions Unit ID: F006

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

- a. Emission Limitation:
0.073 pound stack particulate emissions (PE)/hour, 0.32 ton stack PE/year

Applicable Compliance Method:

The permittee shall demonstrate compliance with this emission limitation by multiplying the maximum throughput (tons/hour) by the appropriate emission factor from AP-42 Table 9.9.1-1, revised 5/98, (0.18 pound PE/ton). This value is then multiplied by the capture efficiency (0.90) then by the control efficiency (1-.999). If required, the permittee shall demonstrate compliance with this emission limitation through the test method specified in 40 CFR Part 60, Appendix A.

The tons/year emission limitation was developed by multiplying the pound/hour limitation by the maximum operating schedule of 8,760 hours/year and dividing by 2000 pounds/ton. Therefore, provided compliance is shown with the hourly limitation, compliance will also be shown with the annual limitation.

- b. Emission Limitation:
35.5 tons fugitive PE/year

Applicable Compliance Method:

The permittee shall demonstrate compliance with this emission limitation by multiplying the maximum throughput (tons/hour) by the appropriate emission factor from AP-42 Table 9.9.1-1, revised 5/98, (0.18 pound PE/ton). If required, the permittee shall demonstrate compliance with this emission limitation through the test method specified in 40 CFR Part 60, Appendix A.

The tons/year emission limitation was developed by multiplying the pound/hour limitation by the maximum operating schedule of 8,760 hours/year and dividing by 2000 pounds/ton. Therefore, provided compliance is shown with the hourly limitation, compliance will also be shown with the annual limitation.

- c. Emission Limitation:
visible PE shall not exceed 5 percent opacity

Applicable Compliance Method:

If required, Method 9, which is located in 40 CFR Part 60, Appendix A and the procedures in 40 CFR 60.11 shall be used to determine opacity.

VI. Miscellaneous Requirements

45

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PTI A₁

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Emissions Unit ID: F006

None

B. State Only Enforceable Section

I. 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>
F006 - truck grain receiving (no. 1 truck dump), with choke flow, partial enclosure and baghouse (modification). The modification involves the increase of throughput through the emissions unit.	None	None

2. Additional Terms and Conditions

2.a None

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)

A. State and Federally Enforceable Section

I. 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>
F007 - truck grain receiving (no. 2 truck dump), with choke flow, partial enclosure and baghouse (modification). The modification involves the increase of throughput through the emissions unit.	OAC rule 3745-31-10 through 20	control requirements (see A.I.2.a)
	OAC rule 3745-31-05(A)(3)	see A.I.2.b
		0.12 pound stack particulate emissions (PE)/hour, 0.53 ton PE/year
		59.1 tons fugitive PE/year
	OAC rule 3745-17-08(A)	see A.I.2.c
	OAC rule 3745-17-07(B)	see A.I.2.d
	40 <u>CFR</u> Part 60, Subpart DD	visible PE shall not exceed 5 percent opacity

2. Additional Terms and Conditions

Emissions Unit ID: F007

- 2.a The permittee shall employ best available control technology (BACT) on this emissions unit. BACT has been determined to be the use of choke flow and a partial (2-sided) enclosure (combined 90 percent emissions reduction) and a baghouse with a removal efficiency of 99.9 percent.
- 2.b The requirements of this rule also include compliance with the requirements of OAC rules 3745-31-10 through 20, and 40 CFR Part 60, Subpart DD.
- 2.c This facility is not located within the areas identified in "Appendix A" of OAC rule 3745-17-08 (it is located in Huron County). Therefore, the requirements of OAC rule 3745-17-08(B) do not apply to this emissions unit.
- 2.d This emissions unit is exempt from the visible particulate emission limitations specified in OAC rule 3745-17-07(B) pursuant to OAC rule 3745-17-07(B)(11)(e).
- 2.e The application and enforcement of the provisions of the New Source Performance Standards (NSPS), as promulgated by the United States Environmental Protection Agency, 40 CFR Part 60, are delegated to the Ohio Environmental Protection Agency. The requirements for 40 CFR Part 60 are also federally enforceable.

II. Operational Restrictions

- 1. The pressure drop across the baghouse shall be maintained within the range of 1-6 inches of water while the emissions unit is in operation.

III. Monitoring and/or Recordkeeping Requirements

- 1. 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 recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop across the baghouse on a weekly basis.
- 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 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 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 eliminate the visible emissions.

IV. Reporting Requirements

1. The permittee shall submit pressure drop deviation (excursion) reports that identify all periods of time during which the pressure drop across the baghouse did not comply with the allowable range specified in section A.II.1 of the terms and conditions of this permit. This deviation report shall be submitted in accordance with the General Terms and Conditions of this permit.
2. Pursuant to the general provisions of NSPS, the source owner/operator is hereby advised of the requirement to report the following at the appropriate times for emissions unit F007:
 - a. construction date (no later than 30 days after such date);
 - b. anticipated start-up date (not more than 60 days or less than 30 days prior to such date);
 - c. actual start-up date (within 15 days after such date); and
 - d. date of performance testing (if required, at least 30 days prior to testing).

This notification shall also include, in accordance with section 60.48c (a)(1), the design heat input capacity and identification of fuels to be combusted in emissions unit F007.

Reports are to be sent to:

Ohio Environmental Protection Agency
DAPC-Permit Management Unit
Lazarus Government Center
P.O. Box 1049
Columbus, OH 43216-1049

and

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

3. The permittee shall submit semiannual written reports which (a) identify all days during which any visible particulate emissions were observed from the stack serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate 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 6-month period.

V. Testing Requirements

Emissions Unit ID: F007

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

- a. Emission Limitation:
0.12 pound stack particulate emissions (PE)/hour, 0.53 ton stack PE/year

Applicable Compliance Method:

The permittee shall demonstrate compliance with this emission limitation by multiplying the maximum throughput (tons/hour) by the appropriate emission factor from AP-42 Table 9.9.1-1, revised 5/98, (0.18 pound PE/ton). This value is then multiplied by the capture efficiency (0.90) then by the control efficiency (1-.999). If required, the permittee shall demonstrate compliance with this emission limitation through the test method specified in 40 CFR Part 60, Appendix A.

The tons/year emission limitation was developed by multiplying the pound/hour limitation by the maximum operating schedule of 8,760 hours/year and dividing by 2000 pounds/ton. Therefore, provided compliance is shown with the hourly limitation, compliance will also be shown with the annual limitation.

- b. Emission Limitation:
59.1 tons fugitive PE/year

Applicable Compliance Method:

The permittee shall demonstrate compliance with this emission limitation by multiplying the maximum throughput (tons/hour) by the appropriate emission factor from AP-42 Table 9.9.1-1, revised 5/98, (0.18 pound PE/ton). If required, the permittee shall demonstrate compliance with this emission limitation through the test method specified in 40 CFR Part 60, Appendix A.

The tons/year emission limitation was developed by multiplying the pound/hour limitation by the maximum operating schedule of 8,760 hours/year and dividing by 2000 pounds/ton. Therefore, provided compliance is shown with the hourly limitation, compliance will also be shown with the annual limitation.

- c. Emission Limitation:
visible PE shall not exceed 5 percent opacity

Applicable Compliance Method:

If required, Method 9, which is located in 40 CFR Part 60, Appendix A and the procedures in 40 CFR 60.11 shall be used to determine opacity.

VI. Miscellaneous Requirements

53

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PTI A₁

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Emissions Unit ID: F007

None

B. State Only Enforceable Section

I. 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>
F007 - truck grain receiving (no. 2 truck dump), with choke flow, partial enclosure and baghouse (modification). The modification involves the increase of throughput through the emissions unit.	None	None

2. Additional Terms and Conditions

2.a None

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

55

Central Soya Company Inc
PTI Application: **02 12260**
Issued

Facility ID: **0339010005**

Emissions Unit ID: F007

56

Centra

PTI A₁

Issued: 11/29/2001

Emissions Unit ID: F007

VI. Miscellaneous Requirements

None

Part III - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)**A. State and Federally Enforceable Section****I. 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>
F016 - rail loadout, with choke flow	OAC rules 3745-31-10 thru 20	control requirements (see A.I.2.a)
	OAC rule 3745-31-05(A)(3)	see A.I.2.e
		10.6 tons fugitive particulate emissions (PE)/year
	OAC rule 3475-17-08(A)	see A.I.2.b
	OAC rule 3745-17-07(B)	see A.I.2.c
	40 <u>CFR</u> Part 60, Subpart DD	None (see A.I.2.d)

2. Additional Terms and Conditions

- 2.a** The permittee shall employ best available control technology (BACT) on this emissions unit. BACT has been determined to be the use of choke-flow to control the fugitive particulate emissions from this emissions unit.
- 2.b** This facility is not located within the areas identified in "Appendix A" of OAC rule 3745-17-08 (it is located in Huron County). Therefore, the requirements of OAC rule 3745-17-08(B) do not apply to this emissions unit.
- 2.c** This emissions unit is exempt from the visible particulate emission limitations specified in OAC rule 3745-17-07(B) pursuant to OAC rule 3745-17-07(B)(11)(e).

2.d This operation is not an affected facility in accordance with this standard. Therefore, there are no applicable emission limitations established.

2.e The requirements of this rule also include compliance with OAC rules 3745-31-10 through 20.

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

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

a. Emission Limitation:
10.6 tons fugitive PE/year

Applicable Compliance Method:

The permittee shall demonstrate compliance with this emission limitation by multiplying the maximum throughput (tons/hour) by the appropriate emission factor from AP-42 Table 9.9.1-1, revised 5/98, (0.27 pound PE/ton). This value is then multiplied by the control factor for use of choked flow (1-0.95). This value is then converted to tons/year by multiplying the pounds/hour rate by 8760 hours/year and dividing by 2000 pounds/ton.

VI. Miscellaneous Requirements

None

B. State Only Enforceable Section

I. 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>
F016 - rail loadout, with choke flow	None	None

2. Additional Terms and Conditions

- 2.a None

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)

A. State and Federally Enforceable Section

I. 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>
P006 - elevator house aspiration system, with baghouses (modification). The modification involves the increase of throughput through the emissions unit.	OAC rule 3745-31-10 through 20	control requirements (see A.I.2.a)
	OAC rule 3745-31-05(A)(3)	see A.I.2.b 0.19 pound particulate emissions (PE)/hour, 0.83 ton PE/year
	OAC rule 3745-17-11(B)	see A.I.2.c
	OAC rule 3745-17-07(A)	see A.I.2.d
	40 <u>CFR</u> Part 60, Subpart DD	visible PE shall not exceed 0 percent opacity.

2. Additional Terms and Conditions

- 2.a The permittee shall employ best available control technology (BACT) on this emissions unit. BACT has been determined to be the use of 2 baghouses (parallel) with a capture efficiency of 100 percent and a removal efficiency of 99.9 percent.
- 2.b The requirements of this rule also include compliance with the requirements of OAC rules 3745-31-10 through 20, and 40 CFR Part 60, Subpart DD.
- 2.c The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-10 through 20, and OAC rule 3745-31-05(A)(3).

- 2.d The emission limitation established by this applicable rule is less stringent than the limit established pursuant to 40 CFR Part 60, Subpart DD, and OAC rule 3745-31-05(A)(3).

II. Operational Restrictions

1. The pressure drop across each baghouse shall be maintained within the range of 2-5 inches of water while the emissions unit is in operation.

III. Monitoring and/or Recordkeeping Requirements

1. The permittee shall properly install, operate, and maintain equipment to monitor the pressure drop across each baghouse while the emissions unit is in operation. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop across each baghouse on a weekly basis.

IV. Reporting Requirements

1. The permittee shall submit pressure drop deviation (excursion) reports that identify all periods of time during which the pressure drop across either baghouse did not comply with the allowable range specified in section A.II.1 of the terms and conditions of this permit. This deviation report shall be submitted in accordance with the General Terms and Conditions of this permit.

V. Testing Requirements

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

- a. Emission Limitation:
0.19 pound PE/hour, 0.83 ton PE/year

Applicable Compliance Method:

The permittee shall demonstrate compliance with this emission limitation by multiplying the process weight rate* (tons/hour) by the appropriate emission factor from AP-42 Table 9.9.1-1, revised 5/98 (grain handling - 0.034 pound PE/ton, screening - 0.019 pound PE/ton, uncontrolled turning and blending - 0.034 pound PE/ton x 50 percent of the grain is turned at any given time = 0.017 pound PE/ton. The total emission factor is 0.07 pound PE/ton), then multiplying this value by the baghouse control factor (1-0.999).

Emissions Unit ID: P006

The tons/year emission limitation was developed by multiplying the pound/hour limitation by the maximum operating schedule of 8,760 hours/year and dividing by 2000 pounds/ton. Therefore, provided compliance is shown with the hourly limitation, compliance will also be shown with the annual limitation.

- b. Emission Limitation:
0 percent opacity

Applicable Compliance Method:

If required, Method 9, which is located in 40 CFR Part 60, Appendix A and the procedures in 40 CFR 60.11 shall be used to determine opacity.

VI. Miscellaneous Requirements

None

B. State Only Enforceable Section**I. 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>
P006 - elevator house aspiration system, with baghouses (modification). The modification involves the increase of throughput through the emissions unit.	None	None

2. Additional Terms and Conditions

2.a None

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

64

Centra

PTI A₁

Issued: 11/29/2001

Emissions Unit ID: P006

VI. Miscellaneous Requirements

None

Part III - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)

A. State and Federally Enforceable Section

I. 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>
P051 - specialty extraction operation, with 2 baghouses and condensor/absorber (modification). The modification involves the increase of throughput through the emissions unit.	OAC rule 3745-31-10 through 20
	OAC rule 3745-31-05(A)(3)
	OAC rule 3745-17-11(B)
	OAC rule 3745-17-07(A)
	OAC rule 3745-21-07(G)
	40 <u>CFR</u> Part 60, Subpart DD
40 <u>CFR</u> Part 63, Subpart GGGG	

Applicable Emissions Limitations/Control Measures	
control requirements (see A.I.2.a)	<u>ethanol emissions</u> : see section A.I.2.c absorber stack (EP060A) combined with P060 - 11.8 pounds VOC/hour, 51.7 tons VOC/year
see A.I.2.d	fugitives combined with P060 - 869.9 tons VOC/year
<u>particulate emissions (PE)</u> :	total stack and fugitive emissions combined with P060 - 96.0 tons VOC/month, 921.6 tons VOC/rolling, 12-month period
bean prep (EP051A) - 0.52 pound PE/hour, 2.28 tons PE/year, combined with P060	see A.I.2.e
flake handling (EP051D) - 0.67 pound PE/hour, 2.93 tons PE/year, combined with P060	visible PE shall not exceed 20 percent opacity, as a six-minute average, except as otherwise provided by rule.
<u>hexane emissions</u> : see section A.I.2.b mineral oil absorber combined with P043 - 20.8 pounds volatile organic compounds (VOC)/hour, 91.1 tons VOC/year - stack	none (see A.II.1)
fugitive VOC emissions combined with P043 - 224.7 tons VOC/year	none (see A.I.2.f)
total stack and fugitive combined with P043 - 85.0 tons VOC/month, 811.2 tons of VOC/rolling, 12-month period	none (see A.I.2.g)

2. Additional Terms and Conditions

- 2.a** The permittee shall employ best available control technology (BACT) on this emissions unit. BACT has been determined to be the use of 2 baghouses (in parallel) with a removal efficiency of 99.9 percent and a condensor/absorber to control VOC emissions.
- 2.b** Hexane consumption, i.e., the emission rates from the hexane extraction operations in emissions units P043 and P051 combined, shall be determined on a "mass balance" basis. Consumption, i.e., the emission rates, shall not exceed the following levels:
- i. total hexane consumption in emissions units P043 and P051 combined shall not exceed 285,400 gallons (811.2 tons)/rolling, 12-month period;
 - ii. total hexane consumption in emissions units P043 and P051 combined shall not exceed 0.388 gallon/ton of crushed soybeans (0.00075 pound of hexane/pound of crushed soybeans from emissions unit P043 and 0.0035 pound of hexane/pound of crushed soybeans from emissions unit P051), based on a rolling, 6-month weighted average; and
 - iii. the short-term loss of hexane from emissions units P043 and P051 combined shall not exceed 85.0 tons/month.
- 2.c** Ethanol consumption, i.e., emission rates from the ethanol extraction operations in emissions units P051 and P060 combined, shall be determined on a "mass balance" basis. Consumption, i.e., emission rates, shall not exceed the following levels:
- i. total ethanol consumption in emissions units P051 and P060 combined shall not exceed 254,235 gallons (921.6 tons)/rolling, 12-month period; and
 - ii. ethanol consumption in emission units P051 and P060 combined shall not exceed 0.012 pounds per pound of white flakes (0.0011 pound of alcohol per pound of white flakes from P051 and 0.011 pound of alcohol per pound of white flakes from P060), based on a 6-month rolling weighted average; and
 - iii. the short-term loss of ethanol from emissions units P051 and P060 combined shall not exceed 96.0 tons/month.
- 2.d** The requirements of this rule also include compliance with the requirements of OAC rules 3745-31-10 through 20, and OAC rule 3745-17-07(A).

Emissions Unit ID: P051

- 2.e The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-10 through 20, and OAC rule 3745-31-05(A)(3).
- 2.f This operation is not an affected facility in accordance with this standard. Therefore, there are no applicable emission limitations established.
- 2.g This emissions unit is an existing operation in accordance with 40 CFR, Part 63, Subpart GGGG and as such, is not required to comply with the requirements of this MACT standard until April 12, 2004.

II. Operational Restrictions

- 1. The permittee shall not employ any material in this emissions unit that is a photochemically reactive material. "Photochemically reactive material" is defined in OAC rule 3745-21-01(C)(5).
- 2. The pressure drop across each baghouse (CEP051A and CEP051D) shall be maintained within the range of 0.5-10 inches of water while the emissions unit is in operation.

III. Monitoring and/or Recordkeeping Requirements

- 1. The permittee shall maintain the following information each month for this emissions unit:
 - a. the company identification of each liquid organic material employed; and
 - b. documentation on whether or not each liquid organic material employed is a photochemically reactive material.
- 2. The permittee shall properly install, operate, and maintain equipment to monitor the pressure drop across each baghouse while this emissions unit is in operation. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop across each baghouse on a weekly basis.
- 3. The permittee shall collect and record the following information on a monthly basis for emissions units P043 and P051 combined:
 - a. the total amount of hexane input* to the process (purchased), in pounds and gallons;
 - b. the total quantity of soybeans weighed in the preparation process before the hexane extraction operation, in pounds and tons;
 - c. the weighted-average hexane loss rate, in gallons of hexane/ton of crushed soybeans, and in pounds hexane/pound crushed soybeans [a/b];

- d. the rolling, 6-month weighted average hexane loss rate, in gallons of hexane/ton of crushed soybeans, and in pounds hexane/pound crushed soybeans [the sum of a for any 6-month period];
- e. the rolling, 12-month total hexane consumption, in gallons;
- f. all incidents of startup or shutdown of the emissions unit, including all amounts of hexane that are routinely added to the system or returned to the storage tanks due to startup or shutdown. This amount of hexane is process hexane that is present in the system during times of continuous operation, but will drain out of the system during shutdown and needs to be charged back into the system prior to startup. The amount of hexane used to "recharge" the system should not be interpreted as a "hexane loss" in calculating emission rates.;
- g. dates of scheduled cleaning/maintenance; and
- h. dates of any process upsets.

*Note: it is assumed that all of the hexane input into the process is emitted via point sources (mineral oil absorber and DTDC) and fugitive sources.

4. The permittee shall collect and record the following information on a monthly basis for emissions units P051 and P060 combined:
 - a. the total amount of ethanol input* to the process (purchased), in pounds and gallons;
 - b. the total quantity of soybeans weighed in the preparation process before the specialty extraction operation, in pounds and tons;
 - c. the weighted-average ethanol loss rate, in gallons of ethanol/ton of crushed soybeans, and in pounds ethanol/pound crushed soybeans [a/b];
 - d. the rolling, 6-month weighted average ethanol loss rate, in gallons of ethanol/ton of crushed soybeans, and in pounds ethanol/pound crushed soybeans [the sum of a for any 6-month period];
 - e. the rolling, 12-month total ethanol consumption, in gallons;
 - f. all incidents of startup or shutdown of the emissions unit, including all amounts of ethanol that are routinely added to the system or returned to the storage tanks due to startup or

Emissions Unit ID: P051

shutdown. This amount of ethanol is process ethanol that is present in the system during times of continuous operation, but will drain out of the system during shutdown and needs to be charged back into the system prior to startup. The amount of ethanol used to "recharge" the system should not be interpreted as a "ethanol loss" in calculating emission rates;

- g. dates of scheduled cleaning/maintenance; and
- h. dates of any process upsets.

*Note: it is assumed that all of the ethanol input into the process is emitted via point and fugitive sources.

IV. Reporting Requirements

1. The permittee shall notify the Director (the appropriate Ohio EPA District Office or local air agency) in writing of any monthly record showing the use of noncomplying materials (i.e., photochemically reactive materials) in this emissions unit. The notification shall include a copy of such record and shall be sent to the Director (the appropriate Ohio EPA District Office or local air agency) within 30 days of the date of the daily record indicating noncompliance.
2. The permittee shall submit pressure drop deviation (excursion) reports that identify all periods of time during which the pressure drop across either baghouse did not comply with the allowable range specified in section A.II.2 of the terms and conditions of this permit.
3. The permittee shall submit deviation (excursion) reports for the following (for emissions units P043 and P051 combined):
 - a. any monthly record that shows an exceedance of the limitation of 285,400 gallons (811.2 tons) hexane/rolling 12-month period;
 - b. any monthly record that shows an exceedance of the limitation of 0.388 gallon hexane/ton of crushed soybeans (0.00075 pound of hexane/pound of crushed soybeans from P043 and 0.0035 pound of hexane/pound of crushed soybeans from P051) based on a 6-month rolling, weighted average; and
 - c. any monthly record that shows any exceedance of the limitation of 85.0 tons hexane/month.
4. The permittee shall submit deviation reports for the following (for emissions units P051 and P060 combined):
 - a. any monthly record that shows an exceedance of the limitation of 152,302 gallons (552.0 tons)/rolling 12-month period; and

Issued: 11/29/2001

- b. any monthly record that shows an exceedance of the limitation of 0.012 pounds per pound of white flakes (0.0011 pound of alcohol per pound of white flakes from P051 and 0.011 pound of alcohol per pound of white flakes from P060), based on a 6-month rolling weighted average; and
 - c. any monthly record that shows any exceedance of the limitation of 58.0 tons/month.
5. The deviation (excursion) reports required by A.IV.2, A.IV.3 and A.IV.4 shall be submitted in accordance with the General Terms and Conditions of this permit.

V. Testing Requirements

1. Testing Requirements: The permittee shall conduct, or have conducted, emission testing for this emissions unit in accordance with the following requirements:
 - a. the emission testing shall be conducted within 6 months after this emissions unit is operational;
 - b. the emission testing shall be conducted to demonstrate compliance with the pounds VOC/hour emission limitation and the control efficiency limitation for VOC from the condensor/absorber; and
 - c. The following test methods shall be employed: (1) to demonstrate compliance with the allowable mass emission rates (34.2 pounds VOC/hour) - Methods 18, 21, 24 and 25, as applicable; and (2) to demonstrate compliance with the control efficiency (i.e., the percent reduction in mass emissions between the inlet and outlet of the control system) - the test methods and procedures specified in OAC rule 3745-21-10. Alternative U.S. EPA-approved test methods may be used with prior approval from Ohio EPA. The test methods and procedures selected shall be based on a consideration of the diversity of the organic species present and their total concentration, and on a consideration of the potential presence of interfering gases.
2. The test(s) shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the appropriate Ohio EPA District Office or local air agency.

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the appropriate Ohio EPA District Office or local air agency. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the test(s), and the person(s) who will be

Emissions Unit ID: P051

conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the Ohio EPA District Office's or local air agency's refusal to accept the results of the emission test(s).

Personnel from the appropriate Ohio EPA District Office or local air agency shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the appropriate Ohio EPA District Office or local air agency within 30 days following completion of the test(s). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the appropriate Ohio EPA District Office or local air agency.

3. Compliance Methods Requirements: Compliance with the emission limitation(s) in section A.I of the terms and conditions of this permit shall be determined in accordance with the following method(s):

- a. Emission Limitation:
 bean prep - 0.52 pound PE/hour, 2.28 tons PE/year
 flake handling - 0.67 pound PE/hour, 2.93 tons PE/year

Applicable Compliance Method:

The permittee shall demonstrate compliance with each hourly emission limitation by multiplying the baghouse manufacturer's guaranteed emission rate (0.0025 grain/dry standard cubic foot) by the baghouse air flow rate (CEP051A - 24,500 cubic feet/minute, CEP051D - 31,100 cubic feet/minute) and converting this value to pounds/hour by multiplying by 60 minutes/hour and dividing by 7000 grains/pound. If required, the permittee shall demonstrate compliance with these hourly emission limitations using Method 5, which is located in 40 CFR Part 60, Appendix A.

As long as compliance is maintained with each hourly emission limitation, compliance with the annual emission limitations will be shown (the annual emission limitation was calculated by multiplying the hourly limitation by 8760 and dividing by 2000).

- b. Emission Limitation:
 20.8 pounds VOC/hour, 91.1 tons VOC/year - stack with P043

Applicable Compliance Method:

The permittee shall demonstrate compliance with this emission limitation through the stack test required in Sections A.VI.1 and A.VI.2 of this permit.

The tons/year emission limitation was developed by multiplying the pound/hour limitation

Emissions Unit ID: P051

by the maximum operating schedule of 8760 hours/year and dividing by 2000 pounds/ton. Therefore, provided compliance is shown with the hourly limitation, compliance will also be shown with the annual limitation.

- c. Emission Limitation:
224.7 tons VOC/year - fugitive with P043

Applicable Compliance Method:

The permittee shall demonstrate compliance with these emission limitations based upon the record keeping required in section A.III.3 of the terms and conditions of this permit.

- d. Emission Limitations:
85.0 tons hexane/month, 811.2 tons hexane/rolling, 12-month period

Applicable Compliance Method:

The permittee shall demonstrate compliance with these emission limitations based upon the record keeping required in section A.III.3 of the terms and conditions of this permit.

- e. Emission Limitation:
0.388 gallon hexane/ton crushed soybeans, based on a rolling, 6-month weighted average (combined with P043)

Applicable Compliance Method:

The permittee shall demonstrate compliance with this emission limitation based upon the record keeping required in section A.III.3 of the terms and conditions of this permit.

- f. Emission Limitation:
0.0035 pound of hexane/pound of crushed soybeans from P051

Applicable Compliance Method:

The permittee shall demonstrate compliance with this emission limitation based upon the record keeping required in section A.III.3 of the terms and conditions of this permit.

- g. Emission Limitation:
11.8 pounds VOC/hour, 51.7 tons VOC/year - stack with P060

Applicable Compliance Method:

The permittee shall demonstrate compliance with this emission limitation through the stack test required in Sections A.VI.1 and A.VI.2 of this permit.

The tons/year emission limitation was developed by multiplying the pound/hour limitation by the maximum operating schedule of 8760 hours/year and dividing by 2000 pounds/ton. Therefore, provided compliance is shown with the hourly limitation, compliance will also be shown with the annual limitation.

- h. Emission Limitation:
869.9 tons VOC/year - fugitive with P060

Applicable Compliance Method:

The permittee shall demonstrate compliance with these emission limitations based upon the record keeping required in section A.III.4 of the terms and conditions of this permit.

- i. Emission Limitation:
0.0011 pound of ethanol per pound of white flakes from P051

Applicable Compliance Method:

The permittee shall demonstrate compliance with the hexane emission limitation of 0.388 gallon/ton crushed soybeans based upon the record keeping required in section A.III.4 of the terms and conditions of this permit.

- j. Emission Limitation:
96.0 tons ethanol/month, 921.6 tons ethanol/rolling, 12-month period

Applicable Compliance Method:

The permittee shall demonstrate compliance with these emission limitations based upon the record keeping required in section A.III.4 of the terms and conditions of this permit.

- k. Emission Limitation:
visible PE shall not exceed 20 percent opacity, as a six-minute average

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance in accordance with OAC rule 3745-17-03(B)(1).

VI. Miscellaneous Requirements

75

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PTI A₁

Issued: 11/29/2001

Emissions Unit ID: P051

None

B. State Only Enforceable Section

I. 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>
P051 - specialty extraction operation, with 2 baghouses and condensor/absorber (modification). The modification involves the increase of throughput through the emissions unit.	None	None

2. Additional Terms and Conditions

2.a None

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

77

Central Soya Company Inc
PTI Application: **02 12260**
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Facility ID: **0339010005**

Emissions Unit ID: P051

78

Centra

PTI A₁

Issued: 11/29/2001

Emissions Unit ID: P051

VI. Miscellaneous Requirements

None

Part III - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)**A. State and Federally Enforceable Section****I. 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>
P052 - bulk loadout transfer, with 3 baghouses (parallel) (modification). The modification involves the increase of throughput through the emissions unit.	OAC rule 3745-31-10 through 20	control requirements (see A.I.2.a)
	OAC rule 3745-31-05(A)(3)	see A.I.2.b
		particulate emissions (PE) from 3 separate baghouses:
		CEPA01B - 0.011 pound PE/hour, 0.048 ton PE/year
		EP052D - 0.021 pound PE/hour, 0.092 ton PE/year
		CEP052A - 0.011 pound PE/hour, 0.048 ton PE/year
	OAC rule 3745-17-11(B)	see A.I.2.c
OAC rule 3745-17-07(A)	visible PE shall not exceed 20 percent opacity, as a six-minute average, except as otherwise provided by rule.	
40 <u>CFR</u> Part 60, Subpart DD		none (see A.I.2.d)

2. Additional Terms and Conditions

- 2.a** The permittee shall employ best available control technology (BACT) on this emissions unit. BACT has been determined to be the use of 3 baghouses (parallel) with a capture efficiency of 100 percent and a removal efficiency of 99.9 percent.
- 2.b** The requirements of this rule also include compliance with the requirements of OAC rules 3745-31-10 through 20, and 40 CFR Part 60, Subpart DD.
- 2.c** The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-10 through 20, and OAC rule 3745-31-05(A)(3).
- 2.d** This operation is not an affected facility in accordance with this standard. Therefore, there are no applicable emission limitations established.

II. Operational Restrictions

- 1. The pressure drop across each baghouse shall be maintained within the range of 2-5 inches of water while the emissions unit is in operation.

III. Monitoring and/or Recordkeeping Requirements

- 1. The permittee shall properly install, operate, and maintain equipment to monitor the pressure drop across each baghouse while the emissions unit is in operation. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop across each baghouse on a weekly basis.

IV. Reporting Requirements

- 1. The permittee shall submit pressure drop deviation (excursion) reports that identify all periods of time during which the pressure drop across any of the three baghouses did not comply with the allowable range specified in section A.II.1 of the terms and conditions of this permit.

V. Testing Requirements

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

- a. Emission Limitation:
CEPA01B - 0.011 pound PE/hour, 0.048 ton PE/year
EP052D - 0.021 pound PE/hour, 0.092 ton PE/year
CEP052A - 0.011 pound PE/hour, 0.048 ton PE/year

Applicable Compliance Method:

The permittee shall demonstrate compliance with each hourly emission limitation by multiplying the baghouse manufacturer's guaranteed emission rate (CEPA01B and CEP052A - 0.0025 grain/dry standard cubic foot; EP052D - 0.005 grain/dry standard cubic foot) by the baghouse air flow rate (500 cubic feet/minute each) and converting this value to pounds/hour by multiplying by 60 minutes/hour and dividing by 7000 grains/pound. If required, the permittee shall demonstrate compliance with this emission limitation through the test method specified in 40 CFR Part 60, Appendix A.

The tons/year emission limitation was developed by multiplying the pound/hour limitation by the maximum operating schedule of 8760 hours/year and dividing by 2000 pounds/ton. Therefore, provided compliance is shown with the hourly limitation, compliance will also be shown with the annual limitation.

- b. Emission Limitation:
visible PE shall not exceed 20 percent opacity, as a six-minute average

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance in accordance with OAC rule 3745-17-03(B)(1).

VI. Miscellaneous Requirements

None

B. State Only Enforceable Section

I. 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>
P052 - bulk loadout transfer, with 3 baghouses (parallel) (modification). The modification involves the increase of throughput through the emissions unit.	None	None

2. Additional Terms and Conditions

2.a None

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)

A. State and Federally Enforceable Section

I. 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>
P058 - concentrate grinding aspiration, with baghouse (modification). The modification involves the increase of throughput through the emissions unit.	OAC rule 3745-31-10 through 20	control requirements (see A.I.2.a)
	OAC rule 3745-31-05(A)(3)	see A.I.2.b
	OAC rule 3745-17-11(B)	0.13 pound particulate emissions(PE)/hour, 0.57 ton PE/year
	OAC rule 3745-17-07(A)	see A.I.2.c
	40 <u>CFR</u> Part 60, Subpart DD	visible PE shall not exceed 20 percent opacity, as a six-minute average, except as otherwise provided by rule.
		none (see A.I.2.d)

2. Additional Terms and Conditions

- 2.a The permittee shall employ best available control technology (BACT) on this emissions unit. BACT has been determined to be the use of a baghouse with a capture efficiency of 100 percent and a removal efficiency of 99.9 percent.
- 2.b The requirements of this rule also include compliance with the requirements of OAC rules 3745-31-10 through 20, and OAC rule 3745-17-07(A).

- 2.c The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-10 through 20, and OAC rule 3745-31-05(A)(3).
- 2.d This operation is not an affected facility in accordance with this standard. Therefore, there are no applicable emission limitations established.

II. Operational Restrictions

- 1. The pressure drop across the baghouse shall be maintained within the range of 2-5 inches of water while the emissions unit is in operation.

III. Monitoring and/or Recordkeeping Requirements

- 1. 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 recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop across the baghouse on a weekly basis.

IV. Reporting Requirements

- 1. The permittee shall submit pressure drop deviation (excursion) reports that identify all periods of time during which the pressure drop across the baghouse did not comply with the allowable range specified in section A.II.1 of the terms and conditions of this permit. This deviation report shall be submitted in accordance with the General Terms and Conditions of this permit.

V. Testing Requirements

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

- a. Emission Limitation:
0.13 pound PE/hour, 0.57 ton PE/year

Applicable Compliance Method:

The permittee shall demonstrate compliance with this emission limitation by multiplying the baghouse manufacturer guaranteed emission rate (0.0025 grain/dry standard cubic foot) by the baghouse air flow rate (6000 cubic feet/minute) and converting this value to

Emissions Unit ID: P058

pounds/hour by multiplying by 60 minutes/hour and dividing by 7000 grains/pound. If required, the permittee shall demonstrate compliance with this emission limitation through the test method specified in 40 CFR Part 60, Appendix A.

The tons/year emission limitation was developed by multiplying the pound/hour limitation by the maximum operating schedule of 8,760 hours/year and dividing by 2000 pounds/ton. Therefore, provided compliance is shown with the hourly limitation, compliance will also be shown with the annual limitation.

- b. Emission Limitation:
20 percent opacity, as a six-minute average

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance in accordance with OAC rule 3745-17-03(B)(1).

VI. Miscellaneous Requirements

None

B. State Only Enforceable Section

I. 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>
P058 - concentrate grinding aspiration, with baghouse (modification). The modification involves the increase of throughput through the emissions unit.	None	None

2. Additional Terms and Conditions

2.a None

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

87

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PTI A₁

Issued: 11/29/2001

Emissions Unit ID: P058

VI. Miscellaneous Requirements

None

Part III - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)

A. State and Federally Enforceable Section

I. 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>	OAC rule 3745-17-11(B)
P060 - soy protein concentrate plant, with 4 cyclones, baghouse and condensor/absorber (modification). The modification involves the increase of throughput through the emissions unit.	OAC rule 3745-31-10 through 20 OAC rule 3745-31-05(A)(3)	OAC rule 3745-17-07(A)
	OAC rule 3745-21-07(G)	

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PTI A₁**Issued: 11/29/2001**

Emissions Unit ID: P060

Applicable Emissions
Limitations/Control
Measures

control requirements (see
 A.I.2.a)

see A.I.2.c

particulate emissions (PE):

bean prep (EP051A) - 0.52
 pound PE/hour, 2.28 tons
 PE/year, combined with
 P051

flake handling (EP051D) -
 0.67 pound PE/hour, 2.93
 tons PE/year, combined with
 P051

volatile organic compound
(VOC) (ethanol) emissions:
 see section A.I.2.b

absorber stack (EP060A)
 with P051 - 11.8 pounds
 VOC/hour, 51.7 tons
 VOC/year

fugitives with P051 - 869.9
 tons VOC/year

total stack and fugitive
 emissions with P051 - 96.0
 tons VOC/month, 921.6 tons
 VOC/rolling, 12-month
 period, combined with P051

none (refer to A.II.1 of the terms and
 conditions of this permit).

see A.I.2.d

visible PE shall not exceed 20 percent
 opacity, as a six-minute average,
 except as otherwise provided by rule.

Emissions Unit ID: P060

2. Additional Terms and Conditions

- 2.a** The permittee shall employ best available control technology (BACT) on this emissions unit. BACT has been determined to be the use of 2 baghouses (in parallel) with a removal efficiency of 99.9 percent and a condensor/absorber to control the VOC emissions.
- 2.b** Ethanol consumption, i.e., emission rates from the ethanol extraction operations in emissions units P051 and P060 combined, shall be determined on a "mass balance" basis. Consumption, i.e., emission rates, shall not exceed the following levels:
- i. total ethanol consumption in emissions units P051 and P060 combined shall not exceed 254,235 gallons (921.6 tons)/rolling, 12-month period;
 - ii. ethanol consumption in emission units P051 and P060 combined shall not exceed 0.012 pounds per pound of white flakes (0.0011 pound of alcohol per pound of white flakes from P051 and 0.011 pound of alcohol per pound of white flakes from P060), based on a 6-month rolling weighted average; and
 - iii. the short-term loss of ethanol from emissions units P051 and P060 combined shall not exceed 96.0 tons/month.
- 2.c** The requirements of this rule also include compliance with the requirements of OAC rules 3745-31-10 through 20, and OAC rule 3745-17-07(A).
- 2.d** The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-10 through 20, and OAC rule 3745-31-05(A)(3).

II. Operational Restrictions

1. The permittee shall not employ any material in this emissions unit that is a photochemically reactive material. "Photochemically reactive material" is defined in OAC rule 3745-21-01(C)(5).
2. The pressure drop across each baghouse shall be maintained within the range of 2-5 inches of water while the emissions unit is in operation.

III. Monitoring and/or Recordkeeping Requirements

1. The permittee shall maintain the following information each month for this emissions unit:
 - a. the company identification of each liquid organic material employed; and
 - b. documentation on whether or not each liquid organic material employed is a photochemically reactive material.

Issued: 11/29/2001

2. The permittee shall properly install, operate, and maintain equipment to monitor the pressure drop across each baghouse while the emissions unit is in operation. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop across each baghouse on a weekly basis.
3. The permittee shall collect and record the following information on a monthly basis for emissions units P051 and P060 combined:
 - a. the total amount of ethanol input* to the process (purchased), in pounds and gallons;
 - b. the total quantity of soybeans weighed in the preparation process before the specialty extraction operation, in pounds and tons;
 - c. the weighted-average ethanol loss rate, in gallons of ethanol/ton of crushed soybeans, and in pounds ethanol/pound crushed soybeans [a/b];
 - d. the rolling, 6-month weighted average ethanol loss rate, in gallons of ethanol/ton of crushed soybeans, and in pounds ethanol/pound crushed soybeans [the sum of a for any 6-month period];
 - e. the rolling, 12-month total ethanol consumption, in gallons;
 - f. all incidents of startup or shutdown of the emissions unit, including all amounts of ethanol that are routinely added to the system or returned to the storage tanks due to startup or shutdown. This amount of ethanol is process ethanol that is present in the system during times of continuous operation, but will drain out of the system during shutdown and needs to be charged back into the system prior to startup. The amount of ethanol used to "recharge" the system should not be interpreted as a "ethanol loss" in calculating emission rates;
 - g. dates of scheduled cleaning/maintenance; and
 - h. dates of any process upsets.

*Note: it is assumed that all of the ethanol input into the process is emitted via point and fugitive sources.

IV. Reporting Requirements

Emissions Unit ID: P060

1. The permittee shall notify the Director (the appropriate Ohio EPA District Office or local air agency) in writing of any monthly record showing the use of noncomplying materials (i.e., photochemically reactive materials) in this emissions unit. The notification shall include a copy of such record and shall be sent to the Director (the appropriate Ohio EPA District Office or local air agency) within 30 days of the date of the daily record indicating noncompliance.
2. The permittee shall submit deviation reports for the following (for emissions units P051 and P060 combined):
 - a. any monthly record that shows an exceedance of the limitation of 152,302 gallons (552.0 tons)/rolling 12-month period; and
 - b. any monthly record that shows an exceedance of the limitation of 0.012 pounds per pound of white flakes (0.0011 pound of alcohol per pound of white flakes from P051 and 0.011 pound of alcohol per pound of white flakes from P060), based on a 6-month rolling weighted average; and
 - c. any monthly record that shows any exceedance of the limitation of 58.0 tons/month.
3. The deviation (excursion) reports required by A.IV.2 shall be submitted in accordance with the General Terms and Conditions of this permit.

V. Testing Requirements

1. Testing Requirements: The permittee shall conduct, or have conducted, emission testing for this emissions unit in accordance with the following requirements:
 - a. the emission testing shall be conducted within 6 months after this emissions unit is operational;
 - b. the emission testing shall be conducted to demonstrate compliance with the pounds VOC/hour emission limitation and the control efficiency limitation for VOC from the condenser/absorber; and
 - c. The following test methods shall be employed: (1) to demonstrate compliance with the allowable mass emission rates (11.8 pounds VOC/hour) - Methods 18, 21, 24 and 25, as applicable; and (2) to demonstrate compliance with the control efficiency (i.e., the percent reduction in mass emissions between the inlet and outlet of the control system) - the test methods and procedures specified in OAC rule 3745-21-10. Alternative U.S. EPA-approved test methods may be used with prior approval from Ohio EPA. The test methods and procedures selected shall be based on a consideration of the diversity of the organic species present and their total concentration, and on a consideration of the potential presence of interfering gases.
2. The test(s) shall be conducted while the emissions unit is operating at or near its maximum

Issued: 11/29/2001

capacity, unless otherwise specified or approved by the appropriate Ohio EPA District Office or local air agency.

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the appropriate Ohio EPA District Office or local air agency. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the test(s), and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the Ohio EPA District Office's or local air agency's refusal to accept the results of the emission test(s).

Personnel from the appropriate Ohio EPA District Office or local air agency shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the appropriate Ohio EPA District Office or local air agency within 30 days following completion of the test(s). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the appropriate Ohio EPA District Office or local air agency.

3. Compliance Methods Requirements: Compliance with the emission limitation(s) in section A.I of the terms and conditions of this permit shall be determined in accordance with the following method(s):

- a. Emission Limitation:
bean prep - 0.52 pound PE/hour, 2.28 tons PE/year
flake handling - 0.67 pound PE/hour, 2.93 tons PE/year

Applicable Compliance Method:

The permittee shall demonstrate compliance with each hourly emission limitation by multiplying the baghouse manufacturer's guaranteed emission rate (0.0025 grain/dry standard cubic foot) by the baghouse air flow rate (CEP051A - 24,500 cubic feet/minute, CEP051D - 31,100 cubic feet/minute) and converting this value to pounds/hour by multiplying by 60 minutes/hour and dividing by 7000 grains/pound.

If required, the permittee shall demonstrate compliance with these hourly emission limitations using Method 5, which is located in 40 CFR Part 60, Appendix A.

Emissions Unit ID: P060

As long as compliance is maintained with each hourly emission limitation, compliance with the annual emission limitations will be shown (the annual emission limitation was calculated by multiplying the hourly limitation by 8760 and dividing by 2000).

- b. Emission Limitation:
11.8 pounds ethanol/hour, 51.7 tons ethanol/year - stack

Applicable Compliance Method:

The permittee shall demonstrate compliance with this emission limitation through the stack test required in Sections A.VI.1 and A.VI.2 of this permit.

The tons/year emission limitation was developed by multiplying the pound/hour limitation by the maximum operating schedule of 8760 hours/year and dividing by 2000 pounds/ton. Therefore, provided compliance is shown with the hourly limitation, compliance will also be shown with the annual limitation.

- c. Emission Limitation:
869.9 tons VOC/year - fugitive

Applicable Compliance Method:

The permittee shall demonstrate compliance with these emission limitations based upon the record keeping required in section A.III.3 of the terms and conditions of this permit.

- d. Emission Limitation:
96.0 tons ethanol/month, 921.6 tons ethanol/rolling, 12-month period

Applicable Compliance Method:

The permittee shall demonstrate compliance with these emission limitations based upon the record keeping required in section A.III.3 of the terms and conditions of this permit.

- e. Emission Limitation:
0.011 pound of alcohol per pound of white flakes from P060

Applicable Compliance Method:

The permittee shall demonstrate compliance with these emission limitations based upon the record keeping required in section A.III.3 of the terms and conditions of this permit.

- f. Emission Limitation:
visible PE shall not exceed 20 percent opacity, as a six-minute average

Applicable Compliance Method:

If required, OAC rule 3745-17-03(B)(1).

VI. Miscellaneous Requirements

95

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PTI A₁

Issued: 11/29/2001

Emissions Unit ID: P060

None

B. State Only Enforceable Section

I. 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>
P060 - soy protein concentrate plant, with 2 baghouses and condensor/absorber (modification). The modification involves the increase of throughput through the emissions unit.	None	None

2. Additional Terms and Conditions

2.a None

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

97

Centra

PTI A₁

Issued: 11/29/2001

Emissions Unit ID: P060

None

VI. Miscellaneous Requirements

None

Part III - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)

A. State and Federally Enforceable Section

I. 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>
P092 - bean cleaning, with baghouse	OAC rule 3745-31-10 through 20	control requirements (see A.I.2.a)
	OAC rule 3745-31-05(A)(3)	see A.I.2.b 11.83 pounds particulate emissions (PE)/hour, 51.82 tons PE/year
	OAC rule 3745-17-11(B)	see A.I.2.c
	OAC rule 3745-17-7(A)	visible PE shall not exceed 20 percent opacity, as a six-minute average, except as otherwise provided by rule
	40 <u>CFR</u> Part 60, Subpart DD	none (see A.I.2.d)

2. Additional Terms and Conditions

- 2.a The permittee shall employ best available control technology (BACT) on this emissions unit. BACT has been determined to be the use of a baghouse with a capture efficiency of 100 percent and a removal efficiency of 99.9 percent.
- 2.b The requirements of this rule also include compliance with the requirements of OAC rules 3745-31-10 through 20, and OAC rule 3745-17-07(A).

Emissions Unit ID: P092

- 2.c** The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-10 through 20, and OAC rule 3745-31-05(A)(3).
- 2.d** This operation is not an affected facility in accordance with this standard. Therefore, there are no applicable emission limitations established.

II. Operational Restrictions

1. The pressure drop across the baghouse shall be maintained within the range of 2-5 inches of water while the emissions unit is in operation.

III. Monitoring and/or Recordkeeping Requirements

1. 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 recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop across the baghouse on a weekly basis.

IV. Reporting Requirements

1. The permittee shall submit pressure drop deviation (excursion) reports that identify all periods of time during which the pressure drop across the baghouse did not comply with the allowable range specified in section A.II.1 of the terms and conditions of this permit. This deviation report shall be submitted in accordance with the General Terms and Conditions of this permit.

V. Testing Requirements

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

- a. Emission Limitation:
11.83 pounds PE/hour, 51.82 tons PE/year

Applicable Compliance Method:

The permittee shall demonstrate compliance with this emission limitation by multiplying the baghouse manufacturer guaranteed emission rate (0.0025 grain/dry standard cubic foot) by the baghouse air flow rate (552000 cubic feet/minute) and converting this value to pounds/hour by multiplying by 60 minutes/hour and dividing by 7000 grains/pound. If required, the permittee shall demonstrate compliance with this emission limitation through the test method specified in 40 CFR Part 60, Appendix A.

The tons/year emission limitation was developed by multiplying the pound/hour limitation

100

Centra

PTI A₁

Issued: 11/29/2001

Emissions Unit ID: P092

by the maximum operating schedule of 8,760 hours/year and dividing by 2000 pounds/ton. Therefore, provided compliance is shown with the hourly limitation, compliance will also be shown with the annual limitation.

- b. Emission Limitation:
20 percent opacity, as a six-minute average

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance in accordance with OAC rule 3745-17-03(B)(1).

VI. Miscellaneous Requirements

None

B. State Only Enforceable Section

I. 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>
P092 - bean cleaning, with baghouse	None	None

2. **Additional Terms and Conditions**

- 2.a None

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)

A. State and Federally Enforceable Section

I. 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>
P093 - hot dehulling operation bean pre-heater, with baghouse	OAC rule 3745-31-10 through 20	control requirements (see A.I.2.a)
	OAC rule 3745-31-05(A)(3)	see A.I.2.b 0.60 pound particulate emission (PE)/hour, 2.63 tons PE/year
	OAC rule 3745-17-11(B)	see A.I.2.c
	OAC rule 3745-17-07(A)	visible PE shall not exceed 20 percent opacity, as a six-minute average, except as otherwise provided by rule
	40 CFR Part 60, Subpart DD	none (see A.I.2.d)

2. Additional Terms and Conditions

- 2.a The permittee shall employ best available control technology (BACT) on this emissions unit. BACT has been determined to be the use of a baghouse with a capture efficiency of 100 percent and a removal efficiency of 99.9 percent.
- 2.b The requirements of this rule also include compliance with the requirements of OAC rules 3745-31-10 through 20, and OAC rule 3745-17-07(A).
- 2.c The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-10 through 20, and OAC rule 3745-31-05(A)(3).

- 2.d** This operation is not an affected facility in accordance with this standard. Therefore, there are no applicable emission limitations established.

II. Operational Restrictions

1. The pressure drop across the baghouse shall be maintained within the range of 2-5 inches of water while the emissions unit is in operation.

III. Monitoring and/or Recordkeeping Requirements

1. 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 recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop across the baghouse on a weekly basis.

IV. Reporting Requirements

1. The permittee shall submit pressure drop deviation (excursion) reports that identify all periods of time during which the pressure drop across the baghouse did not comply with the allowable range specified in section A.II.1 of the terms and conditions of this permit. This deviation report shall be submitted in accordance with the General Terms and Conditions of this permit.

V. Testing Requirements

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

- a. Emission Limitation:
0.60 pounds PE/hour, 2.63 tons PE/year

Applicable Compliance Method:

The permittee shall demonstrate compliance with this emission limitation by multiplying the baghouse manufacturer's guaranteed emission rate 0.005 grain/dry standard cubic foot) by the baghouse air flow rate (14000 cubic feet/minute) and converting this value to pounds/hour by multiplying by 60 minutes/hour and dividing by 7000 grains/pound. If required, the permittee shall demonstrate compliance with this emission limitation through the test method specified in 40 CFR Part 60, Appendix A.

Emissions Unit ID: P093

The tons/year emission limitation was developed by multiplying the pound/hour limitation by the maximum operating schedule of 8760 hours/year and dividing by 2000 pounds/ton. Therefore, provided compliance is shown with the hourly limitation, compliance will also be shown with the annual limitation.

- b. Emission Limitation:
20 percent opacity as a six-minute average

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance in accordance with OAC rule 3745-17-03(B)(1).

VI. Miscellaneous Requirements

None

B. State Only Enforceable Section

I. 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>
P093 - hot dehulling operation bean pre-heater, with baghouse	None	None

2. Additional Terms and Conditions

2.a None

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

106

Centra

PTI A₁

Issued: 11/29/2001

Emissions Unit ID: P093

Part III - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)

A. State and Federally Enforceable Section

I. 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>
P094 - hot dehulling operation, with baghouse	OAC rule 3745-31-10 through 20	control requirements (see A.I.2.a)
	OAC rule 3745-31-05(A)(3)	see A.I.2.b 1.07 pound particulate emissions (PE)/hour, 4.69 tons PE/year
	OAC rule 3745-17-11(B)	see A.I.2.c
	OAC rule 3745-17-07(A)	visible PE shall not exceed 20 percent opacity, as a six-minute average, except as otherwise provided by rule
	40 <u>CFR</u> Part 60, Subpart DD	none (see A.I.2.d)

2. Additional Terms and Conditions

- 2.a The permittee shall employ best available control technology (BACT) on this emissions unit. BACT has been determined to be the use of a baghouse with a capture efficiency of 100 percent and a removal efficiency of 99.9 percent.
- 2.b The requirements of this rule also include compliance with the requirements of OAC rules 3745-31-10 through 20, and OAC rule 3745-17-07(A).

- 2.c The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-10 through 20, and OAC rule 3745-31-05(A)(3).
- 2.d This operation is not an affected facility in accordance with this standard. Therefore, there are no applicable emission limitations established.

II. Operational Restrictions

- 1. The pressure drop across the baghouse shall be maintained within the range of 2-5 inches of water while the emissions unit is in operation.

III. Monitoring and/or Recordkeeping Requirements

- 1. 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 recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop across the baghouse on a weekly basis.

IV. Reporting Requirements

- 1. The permittee shall submit pressure drop deviation (excursion) reports that identify all periods of time during which the pressure drop across the baghouse did not comply with the allowable range specified in section A.II.1 of the terms and conditions of this permit. This deviation report shall be submitted in accordance with the General Terms and Conditions of this permit.

V. Testing Requirements

- 1. Compliance Methods Requirements: Compliance with the emission limitation(s) in section(s) A.I. of the terms and conditions of this permit shall be determined in accordance with the following method(s):
 - a. Emission Limitation:
1.07 pounds PE/hour, 4.69 tons PE/year

Applicable Compliance Method:

The permittee shall demonstrate compliance with this emission limitation by multiplying the baghouse manufacturer's guaranteed emission rate 0.0025 grain/dry standard cubic

Emissions Unit ID: P094

foot) by the baghouse air flow rate (50000 cubic feet/minute) and converting this value to pounds/hour by multiplying by 60 minutes/hour and dividing by 7000 grains/pound. If required, the permittee shall demonstrate compliance with this emission limitation through the test method specified in 40 CFR Part 60, Appendix A.

The tons/year emission limitation was developed by multiplying the pound/hour limitation by the maximum operating schedule of 8760 hours/year and dividing by 2000 pounds/ton. Therefore, provided compliance is shown with the hourly limitation, compliance will also be shown with the annual limitation.

110

Centra

PTI A₁

Issued: 11/29/2001

Emissions Unit ID: P094

- b. Emission Limitation:
20 percent opacity as a six-minute average

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance in accordance with OAC rule 3745-17-03(B)(1).

VI. Miscellaneous Requirements

None

B. State Only Enforceable Section**I. 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>
P094 - hot dehulling operation, with baghouse	None	None

2. Additional Terms and Conditions

2.a None

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)

A. State and Federally Enforceable Section

I. 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>
P095 - bean flaking operation (B), with baghouse	OAC rule 3745-31-10 through 20	control requirements (see A.I.2.a)
	OAC rule 3745-31-05(A)(3)	see A.I.2.b
		0.69 pound particulate emissions (PE)/hour, 3.02 tons PE/hour
	OAC rule 3745-17-11(B)	see A.I.2.c
	OAC rule 3745-17-07(A)	visible PE emissions shall not exceed 20 percent opacity, as a six-minute average, except as otherwise provided by rule
	40 <u>CFR</u> Part 60, Subpart DD	none (see A.I.2.d)

2. Additional Terms and Conditions

- 2.a The permittee shall employ best available control technology (BACT) on this emissions unit. BACT has been determined to be the use of a baghouse with a capture efficiency of 100 percent and a removal efficiency of 99.9 percent.
- 2.b The requirements of this rule also include compliance with the requirements of OAC rules 3745-31-10 through 20, and OAC rule 3745-17-07(A).

Emissions Unit ID: P095

- 2.c** The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-10 through 20, and OAC rule 3745-31-05(A)(3).
- 2.d** This operation is not an affected facility in accordance with this standard. Therefore, there are no applicable emission limitations established.

II. Operational Restrictions

1. The pressure drop across the baghouse shall be maintained within the range of 2-5 inches of water while the emissions unit is in operation.

III. Monitoring and/or Recordkeeping Requirements

1. 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 recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop across the baghouse on a weekly basis.

IV. Reporting Requirements

1. The permittee shall submit pressure drop deviation (excursion) reports that identify all periods of time during which the pressure drop across the baghouse did not comply with the allowable range specified in section A.II.1 of the terms and conditions of this permit. This deviation report shall be submitted in accordance with the General Terms and Conditions of this permit.

V. Testing Requirements

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

- a. Emission Limitation:
0.69 pound PE/hour, 3.02 tons PE/year

Applicable Compliance Method:

The permittee shall demonstrate compliance with this emission limitation by multiplying the baghouse manufacturer's guaranteed emission rate 0.005 grain/dry standard cubic foot) by the baghouse air flow rate (16000 cubic feet/minute) and converting this value to pounds/hour by multiplying by 60 minutes/hour and dividing by 7000 grains/pound. If required, the permittee shall demonstrate compliance with this emission limitation through the test method specified in 40 CFR Part 60, Appendix A.

The tons/year emission limitation was developed by multiplying the pound/hour limitation

by the maximum operating schedule of 8760 hours/year and dividing by 2000 pounds/ton. Therefore, provided compliance is shown with the hourly limitation, compliance will also be shown with the annual limitation.

- b. Emission Limitation:
20 percent opacity as a six-minute average

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance in accordance with OAC rule 3745-17-03(B)(1).

VI. Miscellaneous Requirements

None

B. State Only Enforceable Section

I. 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>
P095 - bean flaking operation (B), with baghouse	None	None

2. Additional Terms and Conditions

2.a None

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

116

Centra

PTI A₁

Issued: 11/29/2001

Emissions Unit ID: P095

Part III - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)

A. State and Federally Enforceable Section

I. 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>	OAC rule 3745-17-07(A)
P096 - conventional extraction operation (B Plant), with 2 cyclones, condensor/absorber	OAC rule 3745-31-10 through 20	OAC rule 3745-21-07(G)
	OAC rule 3745-31-05(A)(3)	40 <u>CFR</u> Part 60, Subpart DD
		40 <u>CFR</u> Part 63, Subpart GGGG
	OAC rule 3745-17-11(B)	

Issued

Emissions Unit ID: P096

Applicable Emissions
Limitations/Control
Measures

0.2 pound hexane/ton soybeans
processed (see Sections A.I.2.f and
A.I.2.g)

control requirements (see
A.I.2.a)

see A.I.2.c

particulate emissions (PE):
dryer - 1.21 pounds
PE/hour, 5.30 tons PE/year

cooler - 1.48 pounds
PE/hour, 6.48 tons PE/year

volatile organic compound
(VOC) emissions: see
section A.I.2.b

stack - 34.2 pounds
VOC/hour, 149.8 tons
VOC/year

fugitive - 299.6 tons
VOC/year

total - 53.0 tons
VOC/month, 449.4 tons
VOC/rolling 12-month
period

see A.I.2.d

visible PE emissions shall not
exceed 20 percent opacity,
as a six-minute average,
except as otherwise provided
by rule

none (see A.II.1)

none (see A.I.2.e)

2. Additional Terms and Conditions

- 2.a** The permittee shall employ best available control technology (BACT) on this emissions unit. BACT has been determined to be the use of 2 cyclones with a removal efficiency of 98.5 percent to control the particulate emissions from this emissions unit and a condensor/absorber with a removal efficiency of 99.1 percent to control the VOC emissions from this emissions unit.
- 2.b** Hexane consumption, i.e., the emission rates from the hexane extraction operation in this emissions unit shall be determined on a "mass balance" basis. Consumption, i.e., the emission rates, shall not exceed the following levels:
- i. total hexane consumption in this emissions unit shall not exceed 160,215 gallons (449.4 tons)/rolling, 12-month period; and
 - ii. the short-term loss of hexane from this emissions unit shall not exceed 53.0 tons/month.
- 2.c** The requirements of this rule also include compliance with the requirements of OAC rules 3745-31-10 through 20, OAC rule 3745-17-07(A) and 40 CFR, Part 63, Subpart GGGG.
- 2.d** The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-10 through 20, and OAC rule 3745-31-05(A)(3).
- 2.e** This operation is not an affected facility in accordance with 40 CFR, Part 63, Subpart GGGG.
- 2.f** In accordance with 40 CFR, Part 63, Subpart GGGG, Maximum Achievable Control Technology (MACT) for this emissions unit has been determined to be use of a condensor/absorber with a removal efficiency of 99.1 percent to control the VOC emissions from this emissions unit. MACT is required by OAC rule 3745-31-10 through 20 (see A.I.2.a).
- 2.g** The compliance date for this emissions unit, which is a new source in accordance with 40 CFR, Part 63, Subpart GGGG, is the date the emissions unit commenced operation.

II. Operational Restrictions

1. The permittee shall not employ any material in this emissions unit that is a photochemically reactive material. "Photochemically reactive material" is defined in OAC rule 3745-21-01(C)(5).
2. In accordance with the provisions in 40 CFR, Part 63, Section 63.2852, the permittee shall develop a written startup, shutdown and malfunction (SSM) plan by the compliance date. The permittee shall implement the plan, when applicable. The permittee shall complete the SSM plan before the compliance date for this emissions unit. The permittee shall also incorporate the SSM plan by reference in the facility's Title V operating permit and keep the SSM plan on-site and readily available as long as this emissions unit is operational. The SSM plan provides detailed procedures for operating and maintaining this emissions unit to minimize emissions during a qualifying SSM event for which the permittee chooses the Section 63.2850(e)(2) malfunction period, or the Section 63.2850(c)(2) or (d)(2) initial startup period. The SSM plan must specify a program of corrective action for malfunctioning process and air pollution control equipment and reflect the best practices now in use by the industry to minimize emissions. Some or all of the procedures may come from plans the permittee has developed for other purposes such as a Standard Operating Procedure manual or an Occupational Safety and Health Administration Process Safety Management plan. To qualify as a SSM plan, other such plans must meet all the applicable requirements of this NESHAP.

III. Monitoring and/or Recordkeeping Requirements

1. The permittee shall maintain the following information each month for this emissions unit:
 - a. the company identification of each liquid organic material employed; and
 - b. documentation on whether or not each liquid organic material employed is a photochemically reactive material.
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 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 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 eliminate the visible emissions.
3. When this emissions unit has processed soybeans for 12 operating months following the compliance date, the permittee shall begin calculating the compliance ratio (which compares the actual HAP (n-hexane) loss to the allowable HAP (n-hexane) loss for the previous 12 operating months) by the end of each calendar month following an operating month (refer to A.III.4.a below) considering the following conditions and exclusions:
 - a. if the emissions unit processes any quantity of soybeans in a calendar month and the emissions unit is not operating under an initial startup period (subject to 40 CFR, Part 63, Section 63.2850(c)(2) or (d)(2)) or malfunction period (subject to 40 CFR, Part 63, Section 63.2850(e)(2)), then the permittee must categorize the month as an operating month;
 - b. the 12-month compliance ratio may include operating months occurring prior to the emissions unit shutdown and operating months that follow after the emissions unit resumes operation;
 - c. if the emissions unit shuts down and processes no soybeans for an entire calendar month, then the permittee must categorize the month as a nonoperating month, as defined in 40 CFR, Part 63, Section 63.2872. Exclude any nonoperating months from the compliance ratio determination;
 - d. if the emissions unit is subject to an initial startup period as defined in 40 CFR, Part 63, Section 63.2872, exclude from the compliance ratio determination any solvent (hexane) and soybean information recorded for the initial startup period;
 - e. if the emissions unit is subject to a malfunction period as defined in 40 CFR, Part 63, Section 63.2872, exclude from the compliance ratio determination any solvent (hexane) and soybean information recorded for the malfunction period; and
 - f. the solvent loss factor used to determine the compliance ratio may change each operating month depending on the tons of soybeans processed during all normal operating periods in a 12 operating month period.

If the compliance ratio is less than or equal to 1.00, the emissions unit was in compliance with the HAP emission requirements for the previous operating month.

4. By the compliance date, in accordance with 40 CFR, Part 63, Section 63.2851, the permittee shall

develop and implement a plan for demonstrating compliance. In this plan, the permittee shall describe the procedures that will be followed in obtaining and recording data, and determining compliance under normal operations. The permittee shall complete the plan before the compliance date for this emissions unit and keep it on-site and readily available as long as this emissions unit is operational. The plan shall include the following information:

- a. the name and address of the owner or operator;
 - b. the physical address of the vegetable oil production process;
 - c. a detailed description of all methods of measurement the permittee will use to determine the solvent (hexane) losses, HAP (n-hexane) content of solvent, and the tons of soybeans processed;
 - d. when each measurement will be made;
 - e. examples of each calculation the permittee will use to determine the compliance status. Include examples of how the permittee will convert data measured with one parameter to other terms for use in compliance determination;
 - f. example logs of how data will be recorded; and
 - g. a plan to ensure that the data continue to meet compliance demonstration needs.
5. For periods of normal operation (i.e., for each operating month), the permittee shall maintain the following records, beginning on the compliance date:
- a. determine and record the extraction solvent (hexane) loss, in gallons, from this emissions unit;
 - b. record the volume fraction of HAP (n-hexane) present at greater than 1 percent, by volume, and gallons of extraction solvent (hexane), in shipment received;
 - c. determine and record the tons soybeans processed by this emissions unit;
 - d. the weighted-average extraction solvent (hexane) loss rate, in gallons of hexane/ton of crushed soybeans [a/c];
 - e. determine the weighted average volume fraction of HAP (n-hexane) in extraction solvent (hexane) received as described in 40 CFR, Part 63, Section 63.2854 by the end of the

following calendar month;

- f. determine and record the actual solvent loss, weighted average volume fraction HAP (n-hexane), soybeans processed and compliance ratio for each 12 operating month period as described in 40 CFR, Part 63, Section 63.2840 by the end of the following calendar month; and
 - g. the rolling, 12-month total extraction solvent (hexane) consumption, in gallons.
6. For initial startup periods subject to 40 CFR, Part 63, Section 63.2850(c)(2) or (d)(2), the permittee shall maintain the following records, beginning on the compliance date:
- a. the permittee shall operate and maintain this emissions unit in accordance with the SSM plan;
 - b. determine and record the extraction solvent (hexane) loss, in gallons, from this emissions unit; and
 - c. record the volume fraction of HAP (n-hexane) present at greater than 1 percent, by volume, and gallons of extraction solvent (hexane), in shipment received.
7. If this emissions unit processes any soybeans, the permittee shall record the following information, beginning on the compliance date:
- a. for the solvent inventory, record the following information in accordance with the permittee's plan for demonstrating compliance:
 - i. dates that define each operating status period during a calendar month;
 - ii. the operating status of this emissions unit such as normal operation, nonoperating, initial startup period, malfunction period, or exempt operation for each recorded time interval;
 - iii. record the gallons of extraction solvent (hexane) in the inventory on the beginning and ending dates of each normal operating period;
 - iv. the gallons of all extraction solvent (hexane) received, purchased, and recovered during each calendar month;
 - v. all extraction solvent (hexane) inventory adjustments, additions or subtractions. The permittee must document the reason for the adjustment and justify the quantity of the adjustment;
 - vi. the total solvent (hexane) loss for each calendar month, regardless of this emissions unit's operating status; and

- vii. the actual solvent (hexane) loss in gallons for each operating month.
 - b. For the weighted average volume fraction of HAP (n-hexane) in the extraction solvent (hexane), the permittee shall record the following information:
 - i. the gallons of extraction solvent (hexane) received in each delivery;
 - ii. the volume fraction of each HAP (n-hexane) exceeding 1 percent by volume in each delivery of extraction solvent (hexane); and
 - iii. the weighted average volume fraction of HAP (n-hexane) in extraction solvent (hexane) received since the end of the last operating month as determined in accordance with 40 CFR, Part 63, Section 63.2854(b)(2).
 - c. Record the following information in accordance with the permittee's plan for demonstrating compliance:
 - i. the dates that define each operating status period. These dates must be the same as the dates entered for the extraction solvent inventory;
 - ii. the operating status of this emissions unit such as normal operation, nonoperating, initial startup period, malfunction period, or exempt operation for each recorded time interval;
 - iii. the soybean inventory on the beginning and ending dates of each normal operating period;
 - iv. the tons of soybeans received at this emissions unit during each normal operating period;
 - v. all soybean adjustments, additions or subtractions for normal operating periods. The permittee shall document the reason for the adjustment and justify the quantity of the adjustment; and
 - vi. the tons of soybeans processed during each operating month.
 - d. After this emissions unit has processed soybeans for 12 operating months, and the permittee is not operating during an initial startup period as described in 40 CFR, Part 63, Section 63.2850(c)(2) or (d)(2), or a malfunction period as described in Section

Emissions Unit ID: P096

63.2850(e)(2), the permittee shall record the following information by the end of the calendar month following each operating month, beginning on the compliance date:

- i. the 12 operating months rolling sum of the actual solvent (hexane) loss in gallons as described in Section 63.2853(c);
 - ii. the weighted average volume fraction of HAP (n-hexane) in extraction solvent (hexane) received for the previous 12 operating months as described in Section 63.2854(b)(3);
 - iii. the 12 operating months rolling sum of soybeans processed at this emissions unit in tons as described in Section 63.2855(c);
 - iv. a determination of the compliance ratio. Using the values from Sections 63.2853, 63.2854, 63.2855, and Table 1 of Section 63.2840, calculate the compliance ratio using Equation 2 of Section 63.2840;
 - v. a statement of whether this emissions unit is in compliance with all of the requirements of 40 CFR, Part 63, Subpart GGGG. This includes a determination of whether the permittee has met all of the applicable requirements in Section 63.2850.
- e. For each SSM event subject to an initial startup period as described in 40 CFR, Part 63, Section 63.2850(c)(2) or (d)(2), or a malfunction period as described in Section 63.2850(e)(2), the permittee shall record the following information by the end of the calendar month following each month in which the initial startup period or malfunction period occurred, beginning on the compliance date:
- i. a description and date of the SSM event, its duration, and reason it qualifies as an initial startup or malfunction;
 - ii. an estimate of the solvent (hexane) loss in gallons for the duration of the initial startup or malfunction period with supporting documentation; and
 - iii. a checklist or other mechanism to indicate whether the SSM plan was followed during the initial startup or malfunction period.

IV. Reporting Requirements

1. The permittee shall notify the Director (the appropriate Ohio EPA District Office or local air agency) in writing of any monthly record showing the use of noncomplying materials (i.e., photochemically reactive materials) in this emissions unit. The notification shall include a copy of such record and shall be sent to the Director (the appropriate Ohio EPA District Office or local air agency) within 30 days of the date of the daily record indicating noncompliance.

Issued: 11/29/2001

2. The permittee shall submit semiannual written reports which (a) identify all days during which any abnormal visible particulate emissions were observed from the stack serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate 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 6-month period.
3. The permittee shall submit deviation (excursion) reports for the following for this emissions unit:
 - a. any monthly record that shows an exceedance of the limitation of 160,215 gallons (449.4 tons) hexane/rolling 12-month period; and
 - b. any monthly record that shows any exceedance of the limitation of 53.0 tons hexane/month.
4. The deviation (excursion) reports required by A.IV.2 and A.IV.3 shall be submitted in accordance with the General Terms and Conditions of this permit.
5. The permittee shall submit the initial notification for new and reconstructed sources in accordance with 40 CFR, Part 63, Section 63.2860. The permittee shall submit a series of notifications before, during, and after the emissions unit's construction per the schedule listed in Section 63.9. The information requirements for the notifications are the same as those listed in the General Provisions with the following exceptions:
 - a. the application for approval of construction does not require the specific HAP (n-hexane) emission data required in Section 63.5(d)(1)(ii)(H) and (iii), (d)(2) and (d)(3)(ii). The application for approval of construction would include, instead, a brief description of the emissions unit, including the types of listed oilseeds (e.g., soybeans) processed, nominal operating capacity, and type of desolventizer(s) used.
 - b. the notification of actual startup date must also include whether the permittee has elected to operate under an initial startup period subject to Section 63.2850(c)(2) and provide an estimate and justification for the anticipated duration of the initial startup period.
6. The permittee shall submit the initial notification for significant modifications to existing or new sources prior to any such modification (refer to 40 CFR, Part 63, Section 63.2860).
7. The permittee shall submit notification of compliance status once compliance is achieved in accordance with 40 CFR, Part 63, Section 63.2860. The permittee shall submit a notification of compliance status report to the Director (appropriate District Office or local air agency) no later than 60 days after determining the initial 12 operating months compliance ratio. If the emissions

Emissions Unit ID: P096

unit is an existing source, the permittee should submit this notification no later than 50 calendar months after the effective date of these NESHAP (36 calendar months for compliance, 12 operating months to record data, and 2 calendar months to complete the report). If the emissions unit is a new or reconstructed source, the notification of compliance status is generally due no later than 20 calendar months after initial startup (6 calendar months for the initial startup period, 12 operating months to record data, and 2 calendar months to complete the report). The notification of compliance status must contain the following information:

- a. the name and address of the owner or operator;
 - b. the physical address of the vegetable oil production process;
 - c. each listed oilseed type (e.g., soybeans) processed during the previous 12 operating months;
 - d. each HAP (n-hexane) identified under Section 63.2854(a) as being present in concentrations greater than 1 percent by volume in each delivery of solvent (hexane) received during the 12 operating months period used for the initial compliance determination;
 - e. a statement designating the emissions unit as a major source of HAP (n-hexane) or a demonstration that the emissions unit qualifies as an area source. An area source is a source that is not a major source and is not collocated within a plant site with other emissions units that are individually or collectively a major source;
 - f. a compliance certification indicating whether the emissions unit complied with all of the requirements of 40 CFR, Part 63, Subpart GGGG throughout the 12 operating months used for the initial source compliance determination. This certification must include a certification of the following items:
 - i. the plan for demonstrating compliance (as described in Section 63.2851) and SSM plan (as described in Section 63.2852) are complete and available on-site for inspection;
 - ii. the permittee is following the procedures described in the plan for demonstrating compliance; and
 - iii. the compliance ratio is less than or equal to 1.00.
8. The permittee shall submit an annual compliance certification in accordance with 40 CFR, Part 63, Section 63.2861(a). The first annual compliance certification is due 12 calendar months after the permittee submits the notification of compliance status. Each subsequent annual compliance certification is due 12 calendar months after the previous annual compliance certification. The annual compliance certification provides the compliance status for each operating month during the 12 calendar months period ending 60 days prior to the date on which the report is due.

Include the following information in the annual certification:

- a. the name and address of the owner or operator;
 - b. the physical address of the vegetable oil production process;
 - c. each listed oilseed type (e.g., soybeans) processed during the 12 calendar months period covered by the report;
 - d. each HAP (n-hexane) identified under Section 63.2854(a) as being present in concentrations greater than 1 percent by volume in each delivery of solvent (hexane) received during the 12 calendar months period covered by the report;
 - e. a statement designating the emissions unit as a major source of HAP (n-hexane) or a demonstration that the emissions unit qualifies as an area source. An area source is an emissions unit that is not a major source and is not collocated within a plant site with other emissions units that are individually or collectively a major source;
 - f. a compliance certification to indicate whether the emissions unit was in compliance for each compliance determination made during the 12 calendar months period covered by the report. For each such compliance determination, the permittee must include a certification of the following information:
 - i. the permittee is following the procedures described in the plan for demonstrating compliance; and
 - ii. the compliance ratio is less than or equal to 1.00.
9. Beginning on the compliance date, the permittee shall submit deviation notification reports for each compliance determination the permittee makes in which the compliance ratio exceeds 1.00 as determined in 40 CFR, Part 63, Section 63.2840(c). The permittee shall submit the deviation report by the end of the month following the calendar month in which the permittee determined the deviation. The deviation notification report must include the following items:
- a. the name and address of the owner or operator;
 - b. the physical address of the vegetable oil production process;
 - c. each listed oilseed type (e.g., soybeans) processed during the 12 operating months period for which the permittee determined the deviation;

- d. the compliance ratio comprising the deviation. The permittee may reduce the frequency of submission of the deviation notification report if the agency responsible for this NESHAP does not object as provided in Section 63.10(e)(3)(iii).
10. Beginning on the compliance date, the permittee shall submit periodic startup, shutdown and malfunction (SSM) reports in accordance with 40 CFR, Part 63, Section 63.2861(c). If the permittee chooses to operate this emissions unit under an initial startup period subject to Section 63.2850(c)(2) or (d)(2) or a malfunction period subject to Section 63.2850(e)(2), the permittee must submit a periodic SSM report by the end of the calendar month following each month in which the initial startup period or malfunction period occurred. The periodic SSM report must include the following information:
 - a. the name, title, and signature of the facility's responsible official who is certifying that the report accurately states that all actions taken during the initial startup or malfunction period were consistent with the emissions unit's SSM plan;
 - b. a description of events occurring during the time period, the date and duration of the events, and reason the time interval qualifies as an initial startup period or malfunction period; and
 - c. an estimate of the solvent (hexane) loss during the initial startup or malfunction period with supporting documentation.
 11. Beginning on the compliance date, the permittee shall submit immediate SSM reports in accordance with 40 CFR, Part 63, Section 63.2861(d). If the permittee handles a SSM during an initial startup period subject to Section 63.2850(c)(2) or (d)(2) or a malfunction period subject to Section 63.2850(e)(2) differently from procedures in the SSM plan, then the permittee must submit an immediate SSM report. Immediate SSM reports consist of a telephone call or facsimile transmission to the Director (appropriate District Office or local air agency) within 2 working days after starting actions inconsistent with the SSM plan, followed by a letter within 7 working days after the end of the event. The letter must include the following information:
 - a. the name, title, and signature of a facility's responsible official who is certifying the accuracy of the report, an explanation of the event, and the reasons for not following the emissions unit's SSM plan;
 - b. a description and date of the SSM event, its duration, and reason it qualifies as a SSM; and
 - c. an estimate of the solvent (hexane) loss for the duration of the SSM event with supporting documentation.

V. Testing Requirements

Emissions Unit ID: P096

1. Testing Requirements: The permittee shall conduct, or have conducted, emission testing for this emissions unit in accordance with the following requirements:
 - a. the emission testing shall be conducted within 6 months after this emissions unit is operational;
 - b. the emission testing shall be conducted to demonstrate compliance with the pounds VOC/hour emission limitation and the control efficiency limitation for VOC from the condenser/absorber; and
 - c. The following test methods shall be employed: (1) to demonstrate compliance with the allowable mass emission rates (34.2 pounds VOC/hour) - Methods 18, 21, 24 and 25, as applicable; and (2) to demonstrate compliance with the control efficiency (i.e., the percent reduction in mass emissions between the inlet and outlet of the control system) - the test methods and procedures specified in OAC rule 3745-21-10. Alternative U.S. EPA-approved test methods may be used with prior approval from Ohio EPA. The test methods and procedures selected shall be based on a consideration of the diversity of the organic species present and their total concentration, and on a consideration of the potential presence of interfering gases.
2. The test(s) shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the appropriate Ohio EPA District Office or local air agency.

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the appropriate Ohio EPA District Office or local air agency. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the test(s), and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the Ohio EPA District Office's or local air agency's refusal to accept the results of the emission test(s).

Personnel from the appropriate Ohio EPA District Office or local air agency shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the appropriate Ohio EPA District Office or local air agency within 30 days following completion of the test(s). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the appropriate Ohio EPA District Office or local air agency.

3. Compliance Methods Requirements: Compliance with the emission limitation(s) in section(s) A.I.

of the terms and conditions of this permit shall be determined in accordance with the following method(s):

- a. Emission Limitation:
dryer - 1.21 pounds PE/hour, 5.30 tons PE/year

Applicable Compliance Method:

The permittee shall demonstrate compliance with the hourly emission limitation by multiplying the maximum process weight rate* by the appropriate emission factor from SCC 3-02-007-89 (0.9 pound PM10/ton). This value is then multiplied by the settling chamber/cyclone control factor (1-.985).

*confidential

The tons/year emission limitation was developed by multiplying the pound/hour limitation by the maximum operating schedule of 8760 hours/year and dividing by 2000 pounds/ton. Therefore, provided compliance is shown with the hourly limitation, compliance will also be shown with the annual limitation.

- b. Emission Limitation:
cooler - 1.48 pounds PE/hour, 6.48 tons PE/year

Applicable Compliance Method:

The permittee shall demonstrate compliance with the hourly emission limitation by multiplying the maximum process weight rate* by the appropriate emission factor from SCC 3-02-007-90 (1.1 pounds PM10/ton). This value is then multiplied by the settling chamber/cyclone control factor (1-.985).

*confidential

The tons/year emission limitation was developed by multiplying the pound/hour limitation by the maximum operating schedule of 8760 hours/year and dividing by 2000 pounds/ton. Therefore, provided compliance is shown with the hourly limitation, compliance will also be shown with the annual limitation.

- c. Emission Limitation:
34.2 pounds VOC/hour, 149.8 tons VOC/year - stack

Applicable Compliance Method:

The permittee shall demonstrate compliance with this emission limitation through the stack

Emissions Unit ID: P096

test required in Sections A.VI.1 and A.VI.2 of this permit.

The tons/year emission limitation was developed by multiplying the pound/hour limitation by the maximum operating schedule of 8760 hours/year and dividing by 2000 pounds/ton. Therefore, provided compliance is shown with the hourly limitation, compliance will also be shown with the annual limitation.

- d. Emission Limitation:
299.6 tons VOC/year - fugitive

Applicable Compliance Method:

The permittee shall demonstrate compliance with this emission limitation based upon the record keeping required in section A.III.5.

- e. Emission Limitation:
53.0 tons VOC/month, 449.4 tons VOC/year

Applicable Compliance Method:

The permittee shall demonstrate compliance with these emission limitations based upon the record keeping required in section A.III.5.

- f. Emission Limitation:
visible PE shall not exceed 20 percent opacity, as a six-minute average

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance in accordance with OAC rule 3745-17-03(B)(1).

- g. Emission Limitation:
0.2 gallon hexane/ton of crushed soybeans

133

Centra

PTI A₁

Issued: 11/29/2001

Emissions Unit ID: P096

Applicable Compliance Method:

The permittee shall demonstrate compliance with this emission limitation based upon the record keeping required in section A.III.5.

VI. Miscellaneous Requirements

None

B. State Only Enforceable Section

I. 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>
P096 - conventional extraction operation (B Plant), with 2 cyclones, condensor/absorber	None	see B.III.

2. Additional Terms and Conditions

2.a None

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping Requirements

1. The permit to install for this emissions unit was evaluated based on the actual materials and the design parameters of the emissions unit's exhaust system, as specified by the permittee in the permit to install application. Ohio EPA's "Review of New Sources of Air Toxic Emissions" policy ("Air Toxic Policy") was applied for each pollutant emitted by this emissions unit using data from the permit to install application and the SCREEN 3.0 model (or other Ohio EPA approved model). The predicted 1-hour maximum ground-level concentration from the use of the SCREEN 3.0 model was compared to the Maximum Acceptable Ground-Level Concentration (MAGLC). The following summarizes the results of the modeling for the "worst case" pollutant(s):

Pollutant: hexane
TLV (mg/m³): 176

Issued: 11/29/2001

Maximum Hourly Emission Rate (lbs/hr): 102.60

Predicted 1-Hour Maximum Ground-Level Concentration (ug/m³): 2,405MAGLC (ug/m³): 4,190.5

Physical changes to or changes in the method of operation of the emissions unit after its installation or modification could affect the parameters used to determine whether or not the "Air Toxic Policy" is satisfied. Consequently, prior to making a change that could impact such parameters, the permittee shall conduct an evaluation to determine that the "Air Toxic Policy" will still be still satisfied. If, upon evaluation, the permittee determines that the "Air Toxic Policy" will not be satisfied, the permittee will not make the change. Changes that can affect the parameters used in applying the "Air Toxic Policy" include the following:

- a. changes in the composition of the materials used (typically for coatings or cleanup materials), or the use of new materials, that would result in the emission of a compound with a lower Threshold Limit Value (TLV), as indicated in the most recent version of the handbook entitled "American Conference of Governmental Industrial Hygienists (ACGIH)," than the lowest TLV value previously modeled;
- b. changes in the composition of the materials, or use of new materials, that would result in an increase in emissions of any pollutant with a listed TLV that was proposed in the application and modeled; and
- c. physical changes to the emissions unit or its exhaust parameters (e.g., increased/ decreased exhaust flow, changes in stack height, changes in stack diameter, etc.).

If the permittee determines that the "Air Toxic Policy" will be satisfied for the above changes, the Ohio EPA will not consider the change(s) to be a "modification" under OAC rule 3745-31-01(VV)(1)(a)(ii), and a modification of the existing permit to install will not be required. If the change(s) is (are) defined as a modification under other provisions of the modification definition (other than (VV)(1)(a)(ii)), then the permittee shall obtain a final permit to install prior to the change.

2. The permittee shall collect, record, and retain the following information when it conducts evaluations to determine that the changed emissions unit will still satisfy the "Air Toxic Policy":
 - a. a description of the parameters changed (composition of materials, new pollutants emitted, change in stack/exhaust parameters, etc.);
 - b. documentation of its evaluation and determination that the changed emissions unit still satisfies the "Air Toxic Policy"; and

- c. where computer modeling is performed, a copy of the resulting computer model runs that show the results of the application of the "Air Toxic Policy" for the change.

IV. Reporting Requirements

None

137

Centra

PTI A₁

Issued: 11/29/2001

Emissions Unit ID: P096

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)**A. State and Federally Enforceable Section****I. 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>
P097 - meal screening (B), with baghouse	OAC rule 3745-31-10 through 20	control requirements (see A.I.2.a)
	OAC rule 3745-31-05(A)(3)	see A.I.2.b 0.086 pound particulate emissions (PE)/year, 0.38 ton PE/year
	OAC rule 3745-17-11(B)	see A.I.2.c
	OAC rule 3745-17-07(A)	visible PE shall not exceed 20 percent opacity, as a six-minute average, except as otherwise provided by rule
	40 <u>CFR</u> Part 60, Subpart DD	none (see A.I.2.d)

2. Additional Terms and Conditions

- 2.a** The permittee shall employ best available control technology (BACT) on this emissions unit. BACT has been determined to be the use of a baghouse with a capture efficiency of 100 percent and a removal efficiency of 99.9 percent.
- 2.b** The requirements of this rule also include compliance with the requirements of OAC rules 3745-31-10 through 20, and OAC rule 3745-17-07(A).

2.c The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-10 through 20, and OAC rule 3745-31-05(A)(3).

2.d This operation is not an affected facility in accordance with this standard. Therefore, there are no applicable emission limitations established.

II. Operational Restrictions

1. The pressure drop across the baghouse shall be maintained within the range of 2-5 inches of water while the emissions unit is in operation.

III. Monitoring and/or Recordkeeping Requirements

1. 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 recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop across the baghouse on a weekly basis.

IV. Reporting Requirements

1. The permittee shall submit pressure drop deviation (excursion) reports that identify all periods of time during which the pressure drop across the baghouse did not comply with the allowable range specified in section A.II.1 of the terms and conditions of this permit. This deviation report shall be submitted in accordance with the General Terms and Conditions of this permit.

V. Testing Requirements

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

- a. Emission Limitation:
0.086 pound PE/hour, 0.38 ton PE/year

Applicable Compliance Method:

The permittee shall demonstrate compliance with this emission limitation by multiplying the baghouse manufacturer's guaranteed emission rate 0.005 grain/dry standard cubic foot) by the baghouse air flow rate (2000 cubic feet/minute) and converting this value to

Emissions Unit ID: P097

pounds/hour by multiplying by 60 minutes/hour and dividing by 7000 grains/pound. If required, the permittee shall demonstrate compliance with this emission limitation through the test method specified in 40 CFR Part 60, Appendix A.

The tons/year emission limitation was developed by multiplying the pound/hour limitation by the maximum operating schedule of 8760 hours/year and dividing by 2000 pounds/ton. Therefore, provided compliance is shown with the hourly limitation, compliance will also be shown with the annual limitation.

- b. Emission Limitation:
20 percent opacity as a six-minute average

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance in accordance with OAC rule 3745-17-03(B)(1).

VI. Miscellaneous Requirements

None

B. State Only Enforceable Section**I. 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>
P097 - meal screening (B), with baghouse	None	None

2. Additional Terms and Conditions

2.a None

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)

A. State and Federally Enforceable Section

I. 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>
P098 - meal grinding (B), with baghouse	OAC rule 3745-31-10 through 20	control requirements (see A.I.2.a)
	OAC rule 3745-31-05(A)(3)	see A.I.2.b 0.30 pound particulate emissions (PE)/year, 1.31 tons PE/year
	OAC rule 3745-17-11(B)	see A.I.2.c
	OAC rule 3745-17-07(A)	visible PE shall not exceed 20 percent opacity, as a six-minute average, except as otherwise provided by rule
	40 <u>CFR</u> Part 60, Subpart DD	none (see A.I.2.d)

2. Additional Terms and Conditions

- 2.a The permittee shall employ best available control technology (BACT) on this emissions unit. BACT has been determined to be the use of a baghouse with a capture efficiency of 100 percent and a removal efficiency of 99.9 percent.
- 2.b The requirements of this rule also include compliance with the requirements of OAC rules 3745-31-10 through 20, and OAC rule 3745-17-07(A).

Emissions Unit ID: P098

- 2.c** The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-10 through 20, and OAC rule 3745-31-05(A)(3).
- 2.d** This operation is not an affected facility in accordance with this standard. Therefore, there are no applicable emission limitations established.

II. Operational Restrictions

1. The pressure drop across the baghouse shall be maintained within the range of 2-5 inches of water while the emissions unit is in operation.

III. Monitoring and/or Recordkeeping Requirements

1. 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 recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop across the baghouse on a weekly basis.

IV. Reporting Requirements

1. The permittee shall submit pressure drop deviation (excursion) reports that identify all periods of time during which the pressure drop across the baghouse did not comply with the allowable range specified in section A.II.1 of the terms and conditions of this permit. This deviation report shall be submitted in accordance with the General Terms and Conditions of this permit.

V. Testing Requirements

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

- a. Emission Limitation:
0.30 pound PE/hour, 1.31 tons PE/year

Applicable Compliance Method:

The permittee shall demonstrate compliance with this emission limitation by multiplying the baghouse manufacturer's guaranteed emission rate 0.0025 grain/dry standard cubic foot) by the baghouse air flow rate (14000 cubic feet/minute) and converting this value to pounds/hour by multiplying by 60 minutes/hour and dividing by 7000 grains/pound. If required, the permittee shall demonstrate compliance with this emission limitation through the test method specified in 40 CFR Part 60, Appendix A.

The tons/year emission limitation was developed by multiplying the pound/hour limitation

by the maximum operating schedule of 8760 hours/year and dividing by 2000 pounds/ton. Therefore, provided compliance is shown with the hourly limitation, compliance will also be shown with the annual limitation.

- b. Emission Limitation:
20 percent opacity as a six-minute average

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance in accordance with OAC rule 3745-17-03(B)(1).

VI. Miscellaneous Requirements

None

B. State Only Enforceable Section

I. 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>
P098 - meal grinding (B), with baghouse	None	None

2. Additional Terms and Conditions

2.a None

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)

A. State and Federally Enforceable Section

I. 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>
P099 - meal process aspiration (B), with baghouse	OAC rule 3745-31-10 through 20	control requirements (see A.I.2.a)
	OAC rule 3745-31-05(A)(3)	see A.I.2.b 0.86 pound particulate emissions (PE)/year, 3.77 tons PE/year
	OAC rule 3745-17-11(B)	see A.I.2.c
	OAC rule 3745-17-07(A)	visible PE shall not exceed 20 percent opacity, as a six-minute average, except as otherwise provided by rule
	40 CFR Part 60, Subpart DD	none (see A.I.2.d)

2. Additional Terms and Conditions

- 2.a The permittee shall employ best available control technology (BACT) on this emissions unit. BACT has been determined to be the use of a baghouse with a capture efficiency of 100 percent and a removal efficiency of 99.9 percent.
- 2.b The requirements of this rule also include compliance with the requirements of OAC rules 3745-31-10 through 20, and OAC rule 3745-17-07(A).
- 2.c The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-10 through 20, and OAC rule 3745-31-05(A)(3).
- 2.d This operation is not an affected facility in accordance with this standard. Therefore, there

are no applicable emission limitations established.

II. Operational Restrictions

1. The pressure drop across the baghouse shall be maintained within the range of 2-5 inches of water while the emissions unit is in operation.

III. Monitoring and/or Recordkeeping Requirements

1. 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 recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop across the baghouse on a weekly basis.

IV. Reporting Requirements

1. The permittee shall submit pressure drop deviation (excursion) reports that identify all periods of time during which the pressure drop across the baghouse did not comply with the allowable range specified in section A.II.1 of the terms and conditions of this permit. This deviation report shall be submitted in accordance with the General Terms and Conditions of this permit.

V. Testing Requirements

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

- a. Emission Limitation:
0.86 pound PE/hour, 3.77 tons PE/year

Applicable Compliance Method:

The permittee shall demonstrate compliance with this emission limitation by multiplying the baghouse manufacturer's guaranteed emission rate 0.0025 grain/dry standard cubic foot) by the baghouse air flow rate (40000 cubic feet/minute) and converting this value to pounds/hour by multiplying by 60 minutes/hour and dividing by 7000 grains/pound. If required, the permittee shall demonstrate compliance with this emission limitation through the test method specified in 40 CFR Part 60, Appendix A.

The tons/year emission limitation was developed by multiplying the pound/hour limitation

148

Centra

PTI A₁

Issued: 11/29/2001

Emissions Unit ID: P099

by the maximum operating schedule of 8760 hours/year and dividing by 2000 pounds/ton. Therefore, provided compliance is shown with the hourly limitation, compliance will also be shown with the annual limitation.

- b. Emission Limitation:
20 percent opacity as a six-minute average

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance in accordance with OAC rule 3745-17-03(B)(1).

VI. Miscellaneous Requirements

None

B. State Only Enforceable Section

I. 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>
P099 - meal process aspiration (B), with baghouse	None	None

2. Additional Terms and Conditions

2.a None

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)

A. State and Federally Enforceable Section

I. 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>
P100 - Kaolin transfer (B), with settling chamber and baghouse	OAC rule 3745-31-10 through 20	control requirements (see A.I.2.a)
	OAC rule 3745-31-05(A)(3)	see A.I.2.b
	OAC rule 3745-17-11(B)	see A.I.2.c
	OAC rule 3745-17-07(A)	visible PE shall not exceed 20 percent opacity, as a six-minute average, except as otherwise provided by rule
	40 <u>CFR</u> Part 60, Subpart DD	none (see A.I.2.d)

2. Additional Terms and Conditions

- 2.a The permittee shall employ best available control technology (BACT) on this emissions unit. BACT has been determined to be the use of a settling chamber and baghouse with a capture efficiency of 100 percent and a removal efficiency of 99.9 percent.
- 2.b The requirements of this rule also include compliance with the requirements of OAC rules 3745-31-10 through 20, and OAC rule 3745-17-07(A).

2.c The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-10 through 20, and OAC rule 3745-31-05(A)(3).

2.d This operation is not an affected facility in accordance with this standard. Therefore, there are no applicable emission limitations established.

II. Operational Restrictions

1. The pressure drop across the baghouse shall be maintained within the range of 2-5 inches of water while the emissions unit is in operation.

III. Monitoring and/or Recordkeeping Requirements

1. 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 recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop across the baghouse on a weekly basis.

IV. Reporting Requirements

1. The permittee shall submit pressure drop deviation (excursion) reports that identify all periods of time during which the pressure drop across the baghouse did not comply with the allowable range specified in section A.II.1 of the terms and conditions of this permit. This deviation report shall be submitted in accordance with the General Terms and Conditions of this permit.

V. Testing Requirements

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

- a. Emission Limitation:
0.011 pound PE/hour, 0.05 ton PE/year

Applicable Compliance Method:

The permittee shall demonstrate compliance with this emission limitation by multiplying the baghouse manufacturer's guaranteed emission rate 0.0025 grain/dry standard cubic foot) by the baghouse air flow rate (500 cubic feet/minute) and converting this value to

Emissions Unit ID: P100

pounds/hour by multiplying by 60 minutes/hour and dividing by 7000 grains/pound. If required, the permittee shall demonstrate compliance with this emission limitation through the test method specified in 40 CFR Part 60, Appendix A.

The tons/year emission limitation was developed by multiplying the pound/hour limitation by the maximum operating schedule of 8760 hours/year and dividing by 2000 pounds/ton. Therefore, provided compliance is shown with the hourly limitation, compliance will also be shown with the annual limitation.

- b. Emission Limitation:
20 percent opacity as a six-minute average

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance in accordance with OAC rule 3745-17-03(B)(1).

VI. Miscellaneous Requirements

None

B. State Only Enforceable Section

I. 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>
P100 - Kaolin transfer (B), with settling chamber and baghouse	None	None

2. Additional Terms and Conditions

- 2.a None

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

154

Centra

PTI A₁

Issued: 11/29/2001

Emissions Unit ID: P100

Part III - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)

A. State and Federally Enforceable Section

I. 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>
P101 - hull refining (B), with baghouse	OAC rule 3745-31-10 through 20	control requirements (see A.I.2.a)
	OAC rule 3745-31-05(A)(3)	see A.I.2.b 0.51 pound particulate emissions (PE)/year, 2.23 tons PE/year
	OAC rule 3745-17-11(B)	see A.I.2.c
	OAC rule 3745-17-07(A)	visible PE shall not exceed 20 percent opacity, as a six-minute average, except as otherwise provided by rule
	40 <u>CFR</u> Part 60, Subpart DD	none (see A.I.2.d)

2. Additional Terms and Conditions

- 2.a The permittee shall employ best available control technology (BACT) on this emissions unit. BACT has been determined to be the use of a baghouse with a capture efficiency of 100 percent and a removal efficiency of 99.9 percent.
- 2.b The requirements of this rule also include compliance with the requirements of OAC rules 3745-31-10 through 20, and OAC rule 3745-17-07(A).

Issued: 11/29/2001

- 2.c** The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-10 through 20, and OAC rule 3745-31-05(A)(3).
- 2.d** This operation is not an affected facility in accordance with this standard. Therefore, there are no applicable emission limitations established.

II. Operational Restrictions

1. The pressure drop across the baghouse shall be maintained within the range of 2-5 inches of water while the emissions unit is in operation.

III. Monitoring and/or Recordkeeping Requirements

1. 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 recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop across the baghouse on a weekly basis.

IV. Reporting Requirements

1. The permittee shall submit pressure drop deviation (excursion) reports that identify all periods of time during which the pressure drop across the baghouse did not comply with the allowable range specified in section A.II.1 of the terms and conditions of this permit. This deviation report shall be submitted in accordance with the General Terms and Conditions of this permit.

V. Testing Requirements

1. Compliance Methods Requirements: Compliance with the emission limitation(s) in section(s) A.I. of the terms and conditions of this permit shall be determined in accordance with the following method(s):
 - a. Emission Limitation:
0.51 pound PE/hour, 2.23 tons PE/year

Applicable Compliance Method:

The permittee shall demonstrate compliance with this emission limitation by multiplying the baghouse manufacturer's guaranteed emission rate 0.005 grain/dry standard cubic foot) by the baghouse air flow rate (12000 cubic feet/minute) and converting this value to

Emissions Unit ID: P101

pounds/hour by multiplying by 60 minutes/hour and dividing by 7000 grains/pound. If required, the permittee shall demonstrate compliance with this emission limitation through the test method specified in 40 CFR Part 60, Appendix A.

The tons/year emission limitation was developed by multiplying the pound/hour limitation by the maximum operating schedule of 8760 hours/year and dividing by 2000 pounds/ton. Therefore, provided compliance is shown with the hourly limitation, compliance will also be shown with the annual limitation.

- b. Emission Limitation:
20 percent opacity as a six-minute average

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance in accordance with OAC rule 3745-17-03(B)(1).

VI. Miscellaneous Requirements

None

B. State Only Enforceable Section

I. 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>
P101 - hull refining (B), with baghouse	None	None

2. Additional Terms and Conditions

2.a None

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)

A. State and Federally Enforceable Section

I. 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>
P102 - hull grinding (B), with baghouse	OAC rule 3745-31-10 through 20	control requirements (see A.I.2.a)
	OAC rule 3745-31-05(A)(3)	see A.I.2.b 0.22 pound particulate emissions (PE)/year, 0.96 ton PE/year
	OAC rule 3745-17-11(B)	see A.I.2.c
	OAC rule 3745-17-07(A)	visible PE shall not exceed 20 percent opacity, as a six-minute average, except as otherwise provided by rule
	40 <u>CFR</u> Part 60, Subpart DD	none (see A.I.2.d)

2. Additional Terms and Conditions

- 2.a The permittee shall employ best available control technology (BACT) on this emissions unit. BACT has been determined to be the use of a baghouse with a capture efficiency of 100 percent and a removal efficiency of 99.9 percent.
- 2.b The requirements of this rule also include compliance with the requirements of OAC rules 3745-31-10 through 20, and OAC rule 3745-17-07(A).

Emissions Unit ID: P102

- 2.c** The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-10 through 20, and OAC rule 3745-31-05(A)(3).
- 2.d** This operation is not an affected facility in accordance with this standard. Therefore, there are no applicable emission limitations established.

II. Operational Restrictions

1. The pressure drop across the baghouse shall be maintained within the range of 2-5 inches of water while the emissions unit is in operation.

III. Monitoring and/or Recordkeeping Requirements

1. 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 recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop across the baghouse on a weekly basis.

IV. Reporting Requirements

1. The permittee shall submit pressure drop deviation (excursion) reports that identify all periods of time during which the pressure drop across the baghouse did not comply with the allowable range specified in section A.II.1 of the terms and conditions of this permit. This deviation report shall be submitted in accordance with the General Terms and Conditions of this permit.

V. Testing Requirements

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

- a. Emission Limitation:
0.22 pound PE/hour, 0.96 ton PE/year

Applicable Compliance Method:

The permittee shall demonstrate compliance with this emission limitation by multiplying the baghouse manufacturer's guaranteed emission rate 0.005 grain/dry standard cubic foot) by the baghouse air flow rate (5200 cubic feet/minute) and converting this value to pounds/hour by multiplying by 60 minutes/hour and dividing by 7000 grains/pound. If required, the permittee shall demonstrate compliance with this emission limitation through the test method specified in 40 CFR Part 60, Appendix A.

The tons/year emission limitation was developed by multiplying the pound/hour limitation

161

Centra

PTI A₁

Issued: 11/29/2001

Emissions Unit ID: P102

by the maximum operating schedule of 8760 hours/year and dividing by 2000 pounds/ton. Therefore, provided compliance is shown with the hourly limitation, compliance will also be shown with the annual limitation.

- b. Emission Limitation:
20 percent opacity as a six-minute average

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance in accordance with OAC rule 3745-17-03(B)(1).

VI. Miscellaneous Requirements

None

B. State Only Enforceable Section

I. 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>
P102 - hull grinding (B), with baghouse	None	None

2. Additional Terms and Conditions

2.a None

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)

A. State and Federally Enforceable Section

I. 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>
P103 - C concentrate conveying to grinding, with baghouse	OAC rule 3745-31-10 through 20	control requirements (see A.I.2.a)
	OAC rule 3745-31-05(A)(3)	see A.I.2.b 0.019 pound particulate emissions (PE)/year, 0.08 ton PE/year
	OAC rule 3745-17-11(B)	see A.I.2.c
	OAC rule 3745-17-07(A)	visible PE shall not exceed 20 percent opacity, as a six-minute average, except as otherwise provided by rule
	40 CFR Part 60, Subpart DD	none (see A.I.2.d)

2. Additional Terms and Conditions

- 2.a The permittee shall employ best available control technology (BACT) on this emissions unit. BACT has been determined to be the use of a baghouse with a capture efficiency of 100 percent and a removal efficiency of 99.9 percent.
- 2.b The requirements of this rule also include compliance with the requirements of OAC rules 3745-31-10 through 20, and OAC rule 3745-17-07(A).
- 2.c The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-10 through 20, and OAC rule 3745-31-05(A)(3).
- 2.d This operation is not an affected facility in accordance with this standard. Therefore, there

are no applicable emission limitations established.

II. Operational Restrictions

1. The pressure drop across the baghouse shall be maintained within the range of 2-5 inches of water while the emissions unit is in operation.

III. Monitoring and/or Recordkeeping Requirements

1. 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 recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop across the baghouse on a weekly basis.

IV. Reporting Requirements

1. The permittee shall submit pressure drop deviation (excursion) reports that identify all periods of time during which the pressure drop across the baghouse did not comply with the allowable range specified in section A.II.1 of the terms and conditions of this permit. This deviation report shall be submitted in accordance with the General Terms and Conditions of this permit.

V. Testing Requirements

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

- a. Emission Limitation:
0.019 pound PE/hour, 0.08 ton PE/year

Applicable Compliance Method:

The permittee shall demonstrate compliance with this emission limitation by multiplying the baghouse manufacturer's guaranteed emission rate 0.0025 grain/dry standard cubic foot) by the baghouse air flow rate (890 cubic feet/minute) and converting this value to pounds/hour by multiplying by 60 minutes/hour and dividing by 7000 grains/pound. If required, the permittee shall demonstrate compliance with this emission limitation through the test method specified in 40 CFR Part 60, Appendix A.

The tons/year emission limitation was developed by multiplying the pound/hour limitation

Emissions Unit ID: P103

by the maximum operating schedule of 8760 hours/year and dividing by 2000 pounds/ton. Therefore, provided compliance is shown with the hourly limitation, compliance will also be shown with the annual limitation.

- b. Emission Limitation:
20 percent opacity as a six-minute average

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance in accordance with OAC rule 3745-17-03(B)(1).

VI. Miscellaneous Requirements

None

B. State Only Enforceable Section

I. 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>
P103 - C concentrate conveying to grinding, with baghouse	None	None

2. Additional Terms and Conditions

- 2.a None

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

167
Centra
PTI A₁
Issued: 11/29/2001

Emissions Unit ID: P103

Part III - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)

A. State and Federally Enforceable Section

I. 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>
P104 - no. 7 grinder, with baghouse	OAC rule 3745-31-10 through 20	control requirements (see A.I.2.a)
	OAC rule 3745-31-05(A)(3)	see A.I.2.b 0.086 pound particulate emissions (PE)/year, 0.38 ton PE/year
	OAC rule 3745-17-11(B)	see A.I.2.c
	OAC rule 3745-17-07(A)	visible PE shall not exceed 20 percent opacity, as a six-minute average, except as otherwise provided by rule
	40 <u>CFR</u> Part 60, Subpart DD	none (see A.I.2.d)

2. Additional Terms and Conditions

- 2.a The permittee shall employ best available control technology (BACT) on this emissions unit. BACT has been determined to be the use of a baghouse with a capture efficiency of 100 percent and a removal efficiency of 99.9 percent.
- 2.b The requirements of this rule also include compliance with the requirements of OAC rules 3745-31-10 through 20, and OAC rule 3745-17-07(A).

- 2.c** The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-10 through 20, and OAC rule 3745-31-05(A)(3).
- 2.d** This operation is not an affected facility in accordance with this standard. Therefore, there are no applicable emission limitations established.

II. Operational Restrictions

1. The pressure drop across the baghouse shall be maintained within the range of 2-5 inches of water while the emissions unit is in operation.

III. Monitoring and/or Recordkeeping Requirements

1. 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 recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop across the baghouse on a weekly basis.

IV. Reporting Requirements

1. The permittee shall submit pressure drop deviation (excursion) reports that identify all periods of time during which the pressure drop across the baghouse did not comply with the allowable range specified in section A.II.1 of the terms and conditions of this permit. This deviation report shall be submitted in accordance with the General Terms and Conditions of this permit.

V. Testing Requirements

1. Compliance Methods Requirements: Compliance with the emission limitation(s) in section(s) A.I. of the terms and conditions of this permit shall be determined in accordance with the following method(s):
 - a. Emission Limitation:
0.086 pound PE/hour, 0.38 ton PE/year

Applicable Compliance Method:

The permittee shall demonstrate compliance with this emission limitation by multiplying the baghouse manufacturer's guaranteed emission rate 0.0025 grain/dry standard cubic foot) by the baghouse air flow rate (4000 cubic feet/minute) and converting this value to

Emissions Unit ID: P104

pounds/hour by multiplying by 60 minutes/hour and dividing by 7000 grains/pound. If required, the permittee shall demonstrate compliance with this emission limitation through the test method specified in 40 CFR Part 60, Appendix A.

The tons/year emission limitation was developed by multiplying the pound/hour limitation by the maximum operating schedule of 8760 hours/year and dividing by 2000 pounds/ton. Therefore, provided compliance is shown with the hourly limitation, compliance will also be shown with the annual limitation.

- b. Emission Limitation:
20 percent opacity as a six-minute average

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance in accordance with OAC rule 3745-17-03(B)(1).

VI. Miscellaneous Requirements

None

B. State Only Enforceable Section**I. 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>
P104 - no. 7 grinder, with baghouse	None	None

2. Additional Terms and Conditions

2.a None

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)

A. State and Federally Enforceable Section

I. 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>
P105 - no. 8 grinder, with baghouse	OAC rule 3745-31-10 through 20	control requirements (see A.I.2.a)
	OAC rule 3745-31-05(A)(3)	see A.I.2.b 0.086 pound particulate emissions (PE)/year, 0.38 tons PE/year
	OAC rule 3745-17-11(B)	see A.I.2.c
	OAC rule 3745-17-07(A)	visible PE shall not exceed 20 percent opacity, as a six-minute average, except as otherwise provided by rule
	40 <u>CFR</u> Part 60, Subpart DD	none (see A.I.2.d)

2. Additional Terms and Conditions

- 2.a The permittee shall employ best available control technology (BACT) on this emissions unit. BACT has been determined to be the use of a baghouse with a capture efficiency of 100 percent and a removal efficiency of 99.9 percent.
- 2.b The requirements of this rule also include compliance with the requirements of OAC rules 3745-31-10 through 20, and OAC rule 3745-17-07(A).

2.c The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-10 through 20, and OAC rule 3745-31-05(A)(3).

2.d This operation is not an affected facility in accordance with this standard. Therefore, there are no applicable emission limitations established.

II. Operational Restrictions

1. The pressure drop across the baghouse shall be maintained within the range of 2-5 inches of water while the emissions unit is in operation.

III. Monitoring and/or Recordkeeping Requirements

1. 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 recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop across the baghouse on a weekly basis

IV. Reporting Requirements

1. The permittee shall submit pressure drop deviation (excursion) reports that identify all periods of time during which the pressure drop across the baghouse did not comply with the allowable range specified in section A.II.1 of the terms and conditions of this permit. This deviation report shall be submitted in accordance with the General Terms and Conditions of this permit.

V. Testing Requirements

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

- a. Emission Limitation:
0.086 pound PE/hour, 0.38 ton PE/year

Applicable Compliance Method:

The permittee shall demonstrate compliance with this emission limitation by multiplying the baghouse manufacturer's guaranteed emission rate 0.0025 grain/dry standard cubic foot) by the baghouse air flow rate (4000 cubic feet/minute) and converting this value to

Emissions Unit ID: P105

pounds/hour by multiplying by 60 minutes/hour and dividing by 7000 grains/pound. If required, the permittee shall demonstrate compliance with this emission limitation through the test method specified in 40 CFR Part 60, Appendix A.

The tons/year emission limitation was developed by multiplying the pound/hour limitation by the maximum operating schedule of 8760 hours/year and dividing by 2000 pounds/ton. Therefore, provided compliance is shown with the hourly limitation, compliance will also be shown with the annual limitation.

- b. Emission Limitation:
20 percent opacity as a six-minute average

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance in accordance with OAC rule 3745-17-03(B)(1).

VI. Miscellaneous Requirements

None

B. State Only Enforceable Section

I. 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>
P105 - no. 8 grinder, with baghouse	None	None

2. Additional Terms and Conditions

2.a None

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)

A. State and Federally Enforceable Section

I. 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>
P106 - C concentrate conveying to storage, with 3 bin vent filters	OAC rule 3745-31-10 through 20	control requirements (see A.I.2.a)
	OAC rule 3745-31-05(A)(3)	see A.I.2.b 0.0054 pound particulate emissions (PE)/year, 0.02 ton PE/year
	OAC rule 3745-17-11(B)	see A.I.2.c
	OAC rule 3745-17-07(A)	visible PE shall not exceed 20 percent opacity, as a six-minute average, except as otherwise provided by rule
	40 <u>CFR</u> Part 60, Subpart DD	none (see A.I.2.d)

2. Additional Terms and Conditions

- 2.a The permittee shall employ best available control technology (BACT) on this emissions unit. BACT has been determined to be the use of 3 bin vent filters (i.e., baghouses) with a capture efficiency of 100 percent and a removal efficiency of 99.9 percent.
- 2.b The requirements of this rule also include compliance with the requirements of OAC rules 3745-31-10 through 20, and OAC rule 3745-17-07(A).

Emissions Unit ID: P106

- 2.c** The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-10 through 20, and OAC rule 3745-31-05(A)(3).
- 2.d** This operation is not an affected facility in accordance with this standard. Therefore, there are no applicable emission limitations established.

II. Operational Restrictions

1. The pressure drop across the baghouse shall be maintained within the range of 2-5 inches of water while the emissions unit is in operation.

III. Monitoring and/or Recordkeeping Requirements

1. 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 recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop across the baghouse on a weekly basis.

IV. Reporting Requirements

1. The permittee shall submit pressure drop deviation (excursion) reports that identify all periods of time during which the pressure drop across the baghouse did not comply with the allowable range specified in section A.II.1 of the terms and conditions of this permit. This deviation report shall be submitted in accordance with the General Terms and Conditions of this permit.

V. Testing Requirements

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

- a. Emission Limitation:
0.0054 pound PE/hour, 0.02 ton PE/year

Applicable Compliance Method:

The permittee shall demonstrate compliance with this emission limitation by multiplying the baghouse manufacturer's guaranteed emission rate 0.0025 grain/dry standard cubic foot) by the baghouse air flow rate (250 cubic feet/minute) and converting this value to pounds/hour by multiplying by 60 minutes/hour and dividing by 7000 grains/pound. If required, the permittee shall demonstrate compliance with this emission limitation through the test method specified in 40 CFR Part 60, Appendix A.

The tons/year emission limitation was developed by multiplying the pound/hour limitation

178

Centra

PTI A₁

Issued: 11/29/2001

Emissions Unit ID: P106

by the maximum operating schedule of 8760 hours/year and dividing by 2000 pounds/ton. Therefore, provided compliance is shown with the hourly limitation, compliance will also be shown with the annual limitation.

- b. Emission Limitation:
20 percent opacity as a six-minute average

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance in accordance with OAC rule 3745-17-03(B)(1).

VI. Miscellaneous Requirements

None

B. State Only Enforceable Section**I. 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>
P106 - C concentrate conveying to storage, with 3 bin vent filters	None	None

2. Additional Terms and Conditions

2.a None

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

180

Central Soya Company Inc
PTI Application: **02 12260**
Issued

Facility ID: **0339010005**

Emissions Unit ID: P106

Part III - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)

A. State and Federally Enforceable Section

I. 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>
P107 - functional soy protein concentrate ingredient dump, with 2 settling chambers (parallel) and a baghouse	OAC rule 3745-31-10 through 20	control requirements (see A.I.2.a)
	OAC rule 3745-31-05(A)(3)	see A.I.2.b
		0.0043 pound particulate emissions (PE)/year, 0.02 tons PE/year
	OAC rule 3745-17-11(B)	see A.I.2.c
	OAC rule 3745-17-07(A)	visible PE shall not exceed 20 percent opacity, as a six-minute average, except as otherwise provided by rule
	40 <u>CFR</u> Part 60, Subpart DD	none (see A.I.2.d)

2. Additional Terms and Conditions

- 2.a The permittee shall employ best available control technology (BACT) on this emissions unit. BACT has been determined to be the use of 2 settling chambers and a baghouse with a capture efficiency of 100 percent and a removal efficiency of 99.9 percent.
- 2.b The requirements of this rule also include compliance with the requirements of OAC rules 3745-31-10 through 20, and OAC rule 3745-17-07(A).

Issued: 11/29/2001

- 2.c** The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-10 through 20, and OAC rule 3745-31-05(A)(3).
- 2.d** This operation is not an affected facility in accordance with this standard. Therefore, there are no applicable emission limitations established.

II. Operational Restrictions

- 1. The pressure drop across the baghouse shall be maintained within the range of 2-5 inches of water while the emissions unit is in operation.

III. Monitoring and/or Recordkeeping Requirements

- 1. 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 recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop across the baghouse on a weekly basis.

IV. Reporting Requirements

- 1. The permittee shall submit pressure drop deviation (excursion) reports that identify all periods of time during which the pressure drop across the baghouse did not comply with the allowable range specified in section A.II.1 of the terms and conditions of this permit. This deviation report shall be submitted in accordance with the General Terms and Conditions of this permit.

V. Testing Requirements

- 1. Compliance Methods Requirements: Compliance with the emission limitation(s) in section(s) A.I. of the terms and conditions of this permit shall be determined in accordance with the following method(s):
 - a. Emission Limitation:
0.0043 pound PE/hour, 0.02 ton PE/year

Applicable Compliance Method:

The permittee shall demonstrate compliance with this emission limitation by multiplying the baghouse manufacturer's guaranteed emission rate 0.005 grain/dry standard cubic foot) by the baghouse air flow rate (100 cubic feet/minute) and converting this value to

pounds/hour by multiplying by 60 minutes/hour and dividing by 7000 grains/pound. If required, the permittee shall demonstrate compliance with this emission limitation through the test method specified in 40 CFR Part 60, Appendix A.

The tons/year emission limitation was developed by multiplying the pound/hour limitation by the maximum operating schedule of 8760 hours/year and dividing by 2000 pounds/ton. Therefore, provided compliance is shown with the hourly limitation, compliance will also be shown with the annual limitation.

- b. Emission Limitation:
20 percent opacity as a six-minute average

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance in accordance with OAC rule 3745-17-03(B)(1).

VI. Miscellaneous Requirements

None

B. State Only Enforceable Section

I. 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>
P107 - functional soy protein concentrate ingredient dump, with 2 settling chambers (parallel) and a baghouse	None	None

2. Additional Terms and Conditions

2.a None

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)

A. State and Federally Enforceable Section

I. 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>	
P108 - functional soy protein concentrate dryer, with cyclone, baghouse and low-NOx burner	OAC rule 3745-31-10 through 20	OAC rule 3745-17-11(B)
	OAC rule 3745-31-05(A)(3)	OAC rule 3745-17-10(B)
		OAC rule 3745-17-07(A)
		OAC rule 3745-18-06(A)
		40 <u>CFR</u> Part 60, Subpart DD

Applicable Emissions Limitations/Control Measures	PE/mmBtu)
control requirements (see A.I.2.a)	see A.I.2.c
see A.I.2.b	see A.I.2.c visible PE shall not exceed 20 percent opacity, as a six-minute average, except as otherwise provided by rule
<u>from the dryer:</u> 1.78 pounds particulate emissions (PE)/hour, 7.80 tons PE/year	see A.I.2.d none (see A.I.2.e)
<u>from natural gas combustion in the dryer:</u> 1.88 pounds nitrogen oxides (NO _x)/hour, 8.23 tons NO _x /year (0.053 pound NO _x /mmBtu)	
0.021 pound sulfur dioxide (SO ₂)/hour, 0.09 ton SO ₂ /year (0.0006 pound SO ₂ /mmBtu)	
1.24 pounds carbon monoxide (CO)/hour, 5.43 tons CO/year (0.035 pound CO/mmBtu)	
0.10 pound volatile organic compounds (VOC)/hour, 0.44 ton VOC/year (0.003 pound VOC/mmBtu)	
0.11 pound particulate emissions (PE)/hour, 0.48 ton PE/year (0.003 pound	

2. Additional Terms and Conditions

- 2.a** The permittee shall employ best available control technology (BACT) on this emissions unit. BACT has been determined to be the use of a baghouse with a capture efficiency of 100 percent and a removal efficiency of 99.9 percent. It has been determined that there is no cost-effective method of controlling the negligible VOC emissions from this emissions unit.
- 2.b** The permittee shall employ best available technology (BAT) on this emissions unit. BAT has been determined to be the use of a baghouse with a capture efficiency of 100 percent and a removal efficiency of 99.9 percent and a low-NO_x burner.
- 2.c** The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-10 through 20, and OAC rule 3745-31-05(A)(3).
- 2.d** This emissions unit is exempt from the sulfur dioxide emission limitations when employing natural gas as long as the heat content is greater than 950 Btu/standard cubic foot and the sulfur content is less than 0.6 lbs/million standard cubic feet.
- 2.e** This operation is not an affected facility in accordance with this standard. Therefore, there are no applicable emission limitations established.

II. Operational Restrictions

1. The pressure drop across the baghouse shall be maintained within the range of 2-5 inches of water while the emissions unit is in operation.
2. The permittee shall only employ natural gas in this emissions unit.

III. Monitoring and/or Recordkeeping Requirements

1. 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 recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop across the baghouse on a weekly basis.
2. For each day during which the permittee burns a fuel other than natural gas, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.

IV. Reporting Requirements

1. The permittee shall submit pressure drop deviation (excursion) reports that identify all periods of time during which the pressure drop across the baghouse did not comply with the allowable range specified in section A.II.1 of the terms and conditions of this permit. This deviation report shall be submitted in accordance with the General Terms and Conditions of this permit.
2. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than natural gas was burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs. This deviation report shall be submitted in accordance with the General Terms and Conditions of this permit.

V. Testing Requirements

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

- a. Emission Limitation:
1.78 pounds PE/hour, 7.80 tons PE/year - from dryer

Applicable Compliance Method:

The permittee shall demonstrate compliance with this emission limitation by multiplying the baghouse manufacturer's guaranteed emission rate 0.0025 grain/dry standard cubic foot) by the baghouse air flow rate (83,000 cubic feet/minute) and converting this value to pounds/hour by multiplying by 60 minutes/hour and dividing by 7000 grains/pound. If required, the permittee shall demonstrate compliance with this emission limitation through the test method specified in 40 CFR Part 60, Appendix A.

The tons/year emission limitation was developed by multiplying the pound/hour limitation by the maximum operating schedule of 8760 hours/year and dividing by 2000 pounds/ton. Therefore, provided compliance is shown with the hourly limitation, compliance will also be shown with the annual limitation.

- b. Emission Limitation:
1.88 pounds NO_x/hour, 8.23 tons NO_x/year - from natural gas combustion

Applicable Compliance Method:

The permittee shall demonstrate compliance with this emission limitation by multiplying the maximum heat input to the dryer (35.4 mmBtu/hour) by the manufacturer's guaranteed emission rate (0.053 pound NO_x/mmBtu). If required, the permittee shall demonstrate compliance with this emission limitation through the test method specified in 40 CFR Part 60, Appendix A.

The tons/year emission limitation was developed by multiplying the pound/hour limitation by the maximum operating schedule of 8,760 hours/year and dividing by 2000 pounds/ton. Therefore, provided compliance is shown with the hourly limitation, compliance will also be shown with the annual limitation.

- c. Emission Limitation
0.021 pound SO₂/hour, 0.09 ton SO₂/year - from natural gas combustion

Applicable Compliance Method:

The permittee shall demonstrate compliance with this emission limitation by multiplying the maximum natural gas combustion rate of the dryer (35,400 mm cubic feet/hour) by the manufacturer's guaranteed emission rate (0.6 pound SO₂/mm cubic feet). If required, the permittee shall demonstrate compliance with this emission limitation through the test method specified in 40 CFR Part 60, Appendix A.

The tons/year emission limitation was developed by multiplying the pound/hour limitation by the maximum operating schedule of 8,760 hours/year and dividing by 2000 pounds/ton. Therefore, provided compliance is shown with the hourly limitation, compliance will also be shown with the annual limitation.

- d. Emission Limitation:
1.24 pounds CO/hour, 5.43 tons CO/year - from natural gas combustion

Applicable Compliance Method:

The permittee shall demonstrate compliance with this emission limitation by multiplying the maximum natural gas combustion rate of the dryer (35,400 mm cubic feet/hour) by the manufacturer's guaranteed emission rate (35 pounds CO/mm cubic feet). If required, the permittee shall demonstrate compliance with this emission limitation through the test method specified in 40 CFR Part 60, Appendix A.

Emissions Unit ID: P108

The tons/year emission limitation was developed by multiplying the pound/hour limitation by the maximum operating schedule of 8,760 hours/year and dividing by 2000 pounds/ton. Therefore, provided compliance is shown with the hourly limitation, compliance will also be shown with the annual limitation.

- e. Emission Limitation:
0.10 pound OC/hour, 0.44 ton VOC/year - from natural gas combustion

Applicable Compliance Method:

The permittee shall demonstrate compliance with this emission limitation by multiplying the maximum natural gas combustion rate of the dryer (35,400 mm cubic feet/hour) by the manufacturer's guaranteed emission rate (2.8 pounds VOC/mm cubic feet). If required, the permittee shall demonstrate compliance with this emission limitation through the test method specified in 40 CFR Part 60, Appendix A.

The tons/year emission limitation was developed by multiplying the pound/hour limitation by the maximum operating schedule of 8,760 hours/year and dividing by 2000 pounds/ton. Therefore, provided compliance is shown with the hourly limitation, compliance will also be shown with the annual limitation.

- f. Emission Limitation:
0.11 pound PE/hour, 0.48 ton PE/year - from natural gas combustion

Applicable Compliance Method:

The permittee shall demonstrate compliance with this emission limitation by multiplying the maximum natural gas combustion rate of the dryer (35,400 mm cubic feet/hour) by the manufacturer's guaranteed emission rate (3.0 pounds PE/mm cubic feet). If required, the permittee shall demonstrate compliance with this emission limitation through the test method specified in 40 CFR Part 60, Appendix A.

The tons/year emission limitation was developed by multiplying the pound/hour limitation by the maximum operating schedule of 8,760 hours/year and dividing by 2000 pounds/ton. Therefore, provided compliance is shown with the hourly limitation, compliance will also be shown with the annual limitation.

- g. Emission Limitation:
20 percent opacity as a six-minute average

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance in accordance with OAC rule 3745-17-03(B)(1).

VI. Miscellaneous Requirements

None

B. State Only Enforceable Section

I. 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>
P108 - functional soy protein concentrate dryer, with cyclone, baghouse and low-NOx burner	None	None

2. Additional Terms and Conditions

2.a None

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

192

Central Soya Company Inc
PTI Application: **02 12260**
Issued

Facility ID: **0339010005**

Emissions Unit ID: P108

None

Part III - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)

A. State and Federally Enforceable Section

I. 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>
P109 - functional soy protein concentrate grinder, with baghouse	OAC rule 3745-31-10 through 20	control requirements (see A.I.2.a)
	OAC rule 3745-31-05(A)(3)	see A.I.2.b 0.064 pound particulate emissions (PE)/hour, 0.28 ton PE/year
	OAC rule 3745-17-11(B)	see A.I.2.c
	OAC rule 3745-17-07(A)	visible PE shall not exceed 20 percent opacity, as a six-minute average, except as otherwise provided by law.
	40 <u>CFR</u> Part 60, Subpart DD	none (see A.I.2.d)

2. Additional Terms and Conditions

- 2.a The permittee shall employ best available control technology (BACT) on this emissions unit. BACT has been determined to be the use of a baghouse with a capture efficiency of 100 percent and a removal efficiency of 99.9 percent.
- 2.b The requirements of this rule also include compliance with the requirements of OAC rules 3745-31-10 through 20, and OAC rule 3745-17-07(A).

Issued: 11/29/2001

- 2.c The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-10 through 20, and OAC rule 3745-31-05(A)(3).
- 2.d This operation is not an affected facility in accordance with this standard. Therefore, there are no applicable emission limitations established.

II. Operational Restrictions

- 1. The pressure drop across the baghouse shall be maintained within the range of 2-5 inches of water while the emissions unit is in operation.

III. Monitoring and/or Recordkeeping Requirements

- 1. 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 recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop across the baghouse on a weekly basis.

IV. Reporting Requirements

- 1. The permittee shall submit pressure drop deviation (excursion) reports that identify all periods of time during which the pressure drop across the baghouse did not comply with the allowable range specified in section A.II.1 of the terms and conditions of this permit. This deviation report shall be submitted in accordance with the General Terms and Conditions of this permit.

V. Testing Requirements

- 1. Compliance Methods Requirements: Compliance with the emission limitation(s) in section A.I of the terms and conditions of this permit shall be determined in accordance with the following method(s):
 - a. Emission Limitation:
0.064 pound PE/hour, 0.28 ton PE/year

Applicable Compliance Method:

The permittee shall demonstrate compliance with this emission limitation by multiplying the baghouse manufacturer's guaranteed emission rate (0.0025 grain/dry standard cubic

foot) by the baghouse air flow rate (3000 cubic feet/minute) and converting this value to pounds/hour by multiplying by 60 minutes/hour and dividing by 7000 grains/pound. If required, the permittee shall demonstrate compliance with this emission limitation through the test method specified in 40 CFR Part 60, Appendix A.

The tons/year emission limitation was developed by multiplying the pound/hour limitation by the maximum operating schedule of 8760 hours/year and dividing by 2000 pounds/ton. Therefore, provided compliance is shown with the hourly limitation, compliance will also be shown with the annual limitation.

- b. Emission Limitation:
20 percent opacity as a six-minute average

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance in accordance with OAC rule 3745-17-03(B)(1).

VI. Miscellaneous Requirements

None

B. State Only Enforceable Section

I. 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>
P109 - functional soy protein concentrate grinder, with baghouse	None	None

2. Additional Terms and Conditions

2.a None

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)

A. State and Federally Enforceable Section

I. 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>
P110 - functional soy protein concentrate product transfer, with settling chamber and baghouse	OAC rule 3745-31-10 through 20	control requirements (see A.I.2.a)
	OAC rule 3745-31-05(A)(3)	see A.I.2.b 0.0064 pound particulate emissions (PE)/hour, 0.03 ton PE/year
	OAC rule 3745-17-11(B)	see A.I.2.c
	OAC rule 3745-17-07(A)	visible PE shall not exceed 20 percent opacity, as a six-minute average, except as otherwise provided by law.
	40 <u>CFR</u> Part 60, Subpart DD	none (see A.I.2.d)

2. Additional Terms and Conditions

- 2.a The permittee shall employ best available control technology (BACT) on this emissions unit. BACT has been determined to be the use of a settling chamber and a baghouse with a capture efficiency of 100 percent and a removal efficiency of 99.9 percent.
- 2.b The requirements of this rule also include compliance with the requirements of OAC rules 3745-31-10 through 20, and OAC rule 3745-17-07(A).

- 2.c** The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-10 through 20, and OAC rule 3745-31-05(A)(3).
- 2.d** This operation is not an affected facility in accordance with this standard. Therefore, there are no applicable emission limitations established.

II. Operational Restrictions

1. The pressure drop across the baghouse shall be maintained within the range of 2-5 inches of water while the emissions unit is in operation.

III. Monitoring and/or Recordkeeping Requirements

1. 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 recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop across the baghouse on a weekly basis.

IV. Reporting Requirements

1. The permittee shall submit pressure drop deviation (excursion) reports that identify all periods of time during which the pressure drop across the baghouse did not comply with the allowable range specified in section A.II.1 of the terms and conditions of this permit. This deviation report shall be submitted in accordance with the General Terms and Conditions of this permit.

V. Testing Requirements

1. Compliance Methods Requirements: Compliance with the emission limitation(s) in section A.I of the terms and conditions of this permit shall be determined in accordance with the following method(s):
 - a. Emission Limitation:
0.0064 pound PE/hour, 0.03 ton PE/year

Applicable Compliance Method:

The permittee shall demonstrate compliance with this emission limitation by multiplying the baghouse manufacturer's guaranteed emission rate (0.0025 grain/dry standard cubic foot) by the baghouse air flow rate (300 cubic feet/minute) and converting this value to

Emissions Unit ID: P110

pounds/hour by multiplying by 60 minutes/hour and dividing by 7000 grains/pound. If required, the permittee shall demonstrate compliance with this emission limitation through the test method specified in 40 CFR Part 60, Appendix A.

The tons/year emission limitation was developed by multiplying the pound/hour limitation by the maximum operating schedule of 8760 hours/year and dividing by 2000 pounds/ton. Therefore, provided compliance is shown with the hourly limitation, compliance will also be shown with the annual limitation.

- b. Emission Limitation:
20 percent opacity as a six-minute average

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance in accordance with OAC rule 3745-17-03(B)(1).

VI. Miscellaneous Requirements

None

B. State Only Enforceable Section

I. 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>
P110 - functional soy protein concentrate product transfer, with settling chamber and baghouse	None	None

2. Additional Terms and Conditions

2.a None

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

201
Centra
PTI A₁
Issued: 11/29/2001

Emissions Unit ID: P110

None

Part III - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)

A. State and Federally Enforceable Section

I. 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>
P111 - functional soy protein concentrate packaging transfer, with baghouse	OAC rule 3745-31-10 through 20	control requirements (see A.I.2.a)
	OAC rule 3745-31-05(A)(3)	see A.I.2.b
		0.011 pound particulate emissions (PE)/hour, 0.048 ton PE/year
	OAC rule 3745-17-11(B)	see A.I.2.c
	OAC rule 3745-17-07(A)	visible PE shall not exceed 20 percent opacity, as a six-minute average, except as otherwise provided by law.
	40 <u>CFR</u> Part 60, Subpart DD	none (see A.I.2.d)

2. Additional Terms and Conditions

- 2.a The permittee shall employ best available control technology (BACT) on this emissions unit. BACT has been determined to be the use of a baghouse with a capture efficiency of 100 percent and a removal efficiency of 99.9 percent.
- 2.b The requirements of this rule also include compliance with the requirements of OAC rules 3745-31-10 through 20, and OAC rule 3745-17-07(A).

Emissions Unit ID: P111

- 2.c** The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-10 through 20, and OAC rule 3745-31-05(A)(3).
- 2.d** This operation is not an affected facility in accordance with this standard. Therefore, there are no applicable emission limitations established.

II. Operational Restrictions

1. The pressure drop across the baghouse shall be maintained within the range of 2-5 inches of water while the emissions unit is in operation.

III. Monitoring and/or Recordkeeping Requirements

1. 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 recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop across the baghouse on a weekly basis.

IV. Reporting Requirements

1. The permittee shall submit pressure drop deviation (excursion) reports that identify all periods of time during which the pressure drop across the baghouse did not comply with the allowable range specified in section A.II.1 of the terms and conditions of this permit. This deviation report shall be submitted in accordance with the General Terms and Conditions of this permit.

V. Testing Requirements

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

- a. Emission Limitation:
0.011 pound PE/hour, 0.048 ton PE/year

Applicable Compliance Method:

The permittee shall demonstrate compliance with this emission limitation by multiplying the baghouse manufacturer's guaranteed emission rate (0.0025 grain/dry standard cubic foot) by the baghouse air flow rate (500 cubic feet/minute) and converting this value to pounds/hour by multiplying by 60 minutes/hour and dividing by 7000 grains/pound. If required, the permittee shall demonstrate compliance with this emission limitation through the test method specified in 40 CFR Part 60, Appendix A.

The tons/year emission limitation was developed by multiplying the pound/hour limitation

204

Centra

PTI A₁

Issued: 11/29/2001

Emissions Unit ID: P111

by the maximum operating schedule of 8760 hours/year and dividing by 2000 pounds/ton. Therefore, provided compliance is shown with the hourly limitation, compliance will also be shown with the annual limitation.

- b. Emission Limitation:
20 percent opacity as a six-minute average

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance in accordance with OAC rule 3745-17-03(B)(1).

VI. Miscellaneous Requirements

None

B. State Only Enforceable Section

I. 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>
P111 - functional soy protein concentrate packaging transfer, with baghouse	None	None

2. Additional Terms and Conditions

2.a None

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)

A. State and Federally Enforceable Section

I. 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>
P112 - functional soy protein concentrate vacuum system, with baghouse	OAC rule 3745-31-10 through 20	control requirements (see A.I.2.a)
	OAC rule 3745-31-05(A)(3)	see A.I.2.b 0.0064 pound particulate emissions (PE)/hour, 0.03 ton PE/year
	OAC rule 3745-17-11(B)	see A.I.2.c
	OAC rule 3745-17-07(A)	visible PE shall not exceed 20 percent opacity, as a six-minute average, except as otherwise provided by law.
	40 <u>CFR</u> Part 60, Subpart DD	none (see A.I.2.d)

2. Additional Terms and Conditions

- 2.a The permittee shall employ best available control technology (BACT) on this emissions unit. BACT has been determined to be the use of a baghouse with a capture efficiency of 100 percent and a removal efficiency of 99.9 percent.
- 2.b The requirements of this rule also include compliance with the requirements of OAC rules 3745-31-10 through 20, and OAC rule 3745-17-07(A).

- 2.c** The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-10 through 20, and OAC rule 3745-31-05(A)(3).
- 2.d** This operation is not an affected facility in accordance with this standard. Therefore, there are no applicable emission limitations established.

II. Operational Restrictions

1. The pressure drop across the baghouse shall be maintained within the range of 2-5 inches of water while the emissions unit is in operation.

III. Monitoring and/or Recordkeeping Requirements

1. 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 recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop across the baghouse on a weekly basis.

IV. Reporting Requirements

1. The permittee shall submit pressure drop deviation (excursion) reports that identify all periods of time during which the pressure drop across the baghouse did not comply with the allowable range specified in section A.II.1 of the terms and conditions of this permit. This deviation report shall be submitted in accordance with the General Terms and Conditions of this permit.

V. Testing Requirements

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

- a. Emission Limitation:
0.0064 pound PE/hour, 0.03 ton PE/year

Applicable Compliance Method:

The permittee shall demonstrate compliance with this emission limitation by multiplying the baghouse manufacturer's guaranteed emission rate (0.0025 grain/dry standard cubic foot) by the baghouse air flow rate (300 cubic feet/minute) and converting this value to pounds/hour by multiplying by 60 minutes/hour and dividing by 7000 grains/pound. If required, the permittee shall demonstrate compliance with this emission limitation through the test method specified in 40 CFR Part 60, Appendix A.

208

Centra

PTI A₁

Issued: 11/29/2001

Emissions Unit ID: P112

The tons/year emission limitation was developed by multiplying the pound/hour limitation by the maximum operating schedule of 8760 hours/year and dividing by 2000 pounds/ton. Therefore, provided compliance is shown with the hourly limitation, compliance will also be shown with the annual limitation.

- b. Emission Limitation:
20 percent opacity as a six-minute average

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance in accordance with OAC rule 3745-17-03(B)(1).

VI. Miscellaneous Requirements

None

B. State Only Enforceable Section

I. 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>
P112 - functional soy protein concentrate vacuum system, with baghouse	None	None

2. Additional Terms and Conditions

2.a None

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

210

Central Soya Company Inc
PTI Application: **02 12260**
Issued

Facility ID: **0339010005**

Emissions Unit ID: P112

Part III - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)

A. State and Federally Enforceable Section

I. 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>
P113 - white flake transfer, with settling chamber and baghouse	OAC rule 3745-31-10 through 20	control requirements (see A.I.2.a)
	OAC rule 3745-31-05(A)(3)	see A.I.2.b 0.028 pound particulate emissions (PE)/hour, 0.12 ton PE/year
	OAC rule 3745-17-11(B)	see A.I.2.c
	OAC rule 3745-17-07(A)	visible PE shall not exceed 20 percent opacity, as a six-minute average, except as otherwise provided by law.
	40 <u>CFR</u> Part 60, Subpart DD	none (see A.I.2.d)

2. Additional Terms and Conditions

- 2.a The permittee shall employ best available control technology (BACT) on this emissions unit. BACT has been determined to be the use of a baghouse with a capture efficiency of 100 percent and a removal efficiency of 99.9 percent.
- 2.b The requirements of this rule also include compliance with the requirements of OAC rules 3745-31-10 through 20, and OAC rule 3745-17-07(A).

Issued: 11/29/2001

- 2.c The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-10 through 20, and OAC rule 3745-31-05(A)(3).
- 2.d This operation is not an affected facility in accordance with this standard. Therefore, there are no applicable emission limitations established.

II. Operational Restrictions

- 1. The pressure drop across the baghouse shall be maintained within the range of 2-5 inches of water while the emissions unit is in operation.

III. Monitoring and/or Recordkeeping Requirements

- 1. 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 recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop across the baghouse on a weekly basis.

IV. Reporting Requirements

- 1. The permittee shall submit pressure drop deviation (excursion) reports that identify all periods of time during which the pressure drop across the baghouse did not comply with the allowable range specified in section A.II.1 of the terms and conditions of this permit. This deviation report shall be submitted in accordance with the General Terms and Conditions of this permit.

V. Testing Requirements

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

- a. Emission Limitation:
0.028 pound PE/hour, 0.12 ton PE/year

Applicable Compliance Method:

The permittee shall demonstrate compliance with this emission limitation by multiplying the baghouse manufacturer's guaranteed emission rate (0.0025 grain/dry standard cubic foot) by the baghouse air flow rate (1300 cubic feet/minute) and converting this value to

pounds/hour by multiplying by 60 minutes/hour and dividing by 7000 grains/pound. If required, the permittee shall demonstrate compliance with this emission limitation through the test method specified in 40 CFR Part 60, Appendix A.

The tons/year emission limitation was developed by multiplying the pound/hour limitation by the maximum operating schedule of 8760 hours/year and dividing by 2000 pounds/ton. Therefore, provided compliance is shown with the hourly limitation, compliance will also be shown with the annual limitation.

- b. Emission Limitation:
20 percent opacity as a six-minute average

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance in accordance with OAC rule 3745-17-03(B)(1).

VI. Miscellaneous Requirements

None

B. State Only Enforceable Section

I. 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>
P113 - white flake transfer, with settling chamber and baghouse	None	None

2. Additional Terms and Conditions

2.a None

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)

A. State and Federally Enforceable Section

I. 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>
P114 - soy flour grinder, with baghouse	OAC rule 3745-31-10 through 20	control requirements (see A.I.2.a)
	OAC rule 3745-31-05(A)(3)	see A.I.2.b 0.13 pound particulate emissions (PE)/hour, 0.57 ton PE/year
	OAC rule 3745-17-11(B)	see A.I.2.c
	OAC rule 3745-17-07(A)	visible PE shall not exceed 20 percent opacity, as a six-minute average, except as otherwise provided by rule.
	40 <u>CFR</u> Part 60, Subpart DD	none (see A.I.2.d)

2. Additional Terms and Conditions

- 2.a The permittee shall employ best available control technology (BACT) on this emissions unit. BACT has been determined to be the use of a baghouse with a capture efficiency of 100 percent and a removal efficiency of 99.9 percent.
- 2.b The requirements of this rule also include compliance with the requirements of OAC rules 3745-31-10 through 20, and OAC rule 3745-17-07(A).

- 2.c The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-10 through 20, and OAC rule 3745-31-05(A)(3).
- 2.d This operation is not an affected facility in accordance with this standard. Therefore, there are no applicable emission limitations established.

II. Operational Restrictions

- 1. The pressure drop across the baghouse shall be maintained within the range of 2-5 inches of water while the emissions unit is in operation.

III. Monitoring and/or Recordkeeping Requirements

- 1. 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 recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop across the baghouse on a weekly basis.

IV. Reporting Requirements

- 1. The permittee shall submit pressure drop deviation (excursion) reports that identify all periods of time during which the pressure drop across the baghouse did not comply with the allowable range specified in section A.II.1 of the terms and conditions of this permit. This deviation report shall be submitted in accordance with the General Terms and Conditions of this permit.

V. Testing Requirements

- 1. Compliance Methods Requirements: Compliance with the emission limitation(s) in section A.I of the terms and conditions of this permit shall be determined in accordance with the following method(s):
 - a. Emission Limitation:
0.13 pound PE/hour, 0.57 ton PE/year

Applicable Compliance Method:

The permittee shall demonstrate compliance with this emission limitation by multiplying the baghouse manufacturer's guaranteed emission rate (0.0025 grain/dry standard cubic foot) by the baghouse air flow rate (6000 cubic feet/minute) and converting this value to

Emissions Unit ID: P114

pounds/hour by multiplying by 60 minutes/hour and dividing by 7000 grains/pound. If required, the permittee shall demonstrate compliance with this emission limitation through the test method specified in 40 CFR Part 60, Appendix A.

The tons/year emission limitation was developed by multiplying the pound/hour limitation by the maximum operating schedule of 8760 hours/year and dividing by 2000 pounds/ton. Therefore, provided compliance is shown with the hourly limitation, compliance will also be shown with the annual limitation.

- b. Emission Limitation:
20 percent opacity as a six-minute average

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance in accordance with OAC rule 3745-17-03(B)(1).

VI. Miscellaneous Requirements

None

B. State Only Enforceable Section

I. 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>
P114 - soy flour grinder, with baghouse	None	None

2. Additional Terms and Conditions

- 2.a None

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)

A. State and Federally Enforceable Section

I. 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>
P115 - soy flour transfer, with settling chamber and baghouse	OAC rule 3745-31-10 through 20	control requirements (see A.I.2.a)
	OAC rule 3745-31-05(A)(3)	see A.I.2.b 0.03 pound particulate emissions (PE)/hour, 0.13 ton PE/year
	OAC rule 3745-17-11(B)	see A.I.2.c
	OAC rule 3745-17-07(A)	visible PE shall not exceed 20 percent opacity, as a six-minute average, except as otherwise provided by law.
	40 <u>CFR</u> Part 60, Subpart DD	none (see A.I.2.d)

2. Additional Terms and Conditions

- 2.a The permittee shall employ best available control technology (BACT) on this emissions unit. BACT has been determined to be the use of a settling chamber and a baghouse with a capture efficiency of 100 percent and a removal efficiency of 99.9 percent.
- 2.b The requirements of this rule also include compliance with the requirements of OAC rules 3745-31-10 through 20, and OAC rule 3745-17-07(A).

Emissions Unit ID: P115

- 2.c** The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-10 through 20, and OAC rule 3745-31-05(A)(3).
- 2.d** This operation is not an affected facility in accordance with this standard. Therefore, there are no applicable emission limitations established.

II. Operational Restrictions

1. The pressure drop across the baghouse shall be maintained within the range of 2-5 inches of water while the emissions unit is in operation.

III. Monitoring and/or Recordkeeping Requirements

1. 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 recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop across the baghouse on a weekly basis.

IV. Reporting Requirements

1. The permittee shall submit pressure drop deviation (excursion) reports that identify all periods of time during which the pressure drop across the baghouse did not comply with the allowable range specified in section A.II.1 of the terms and conditions of this permit. This deviation report shall be submitted in accordance with the General Terms and Conditions of this permit.

V. Testing Requirements

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

- a. Emission Limitation:
0.03 pound PE/hour, 0.13 ton PE/year

Applicable Compliance Method:

The permittee shall demonstrate compliance with this emission limitation by multiplying the baghouse manufacturer's guaranteed emission rate (0.005 grain/dry standard cubic foot) by the baghouse air flow rate (700 cubic feet/minute) and converting this value to pounds/hour by multiplying by 60 minutes/hour and dividing by 7000 grains/pound. If required, the permittee shall demonstrate compliance with this emission limitation through the test method specified in 40 CFR Part 60, Appendix A.

The tons/year emission limitation was developed by multiplying the pound/hour limitation

221

Centra

PTI A₁

Issued: 11/29/2001

Emissions Unit ID: P115

by the maximum operating schedule of 8760 hours/year and dividing by 2000 pounds/ton. Therefore, provided compliance is shown with the hourly limitation, compliance will also be shown with the annual limitation.

- b. Emission Limitation:
20 percent opacity as a six-minute average

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance in accordance with OAC rule 3745-17-03(B)(1).

VI. Miscellaneous Requirements

None

B. State Only Enforceable Section

I. 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>
P115 - soy flour transfer, with settling chamber and baghouse	None	None

2. Additional Terms and Conditions

- 2.a None

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

223

Centra

PTI A₁

Issued: 11/29/2001

Emissions Unit ID: P115

Part III - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)

A. State and Federally Enforceable Section

I. 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>
P116 - bulk soy flour loadout, with settling chamber and 2 baghouses (parallel)	OAC rule 3745-31-10 through 20	control requirements (see A.I.2.a)
	OAC rule 3745-31-05(A)(3)	see A.I.2.b 0.011 pound particulate emissions (PE)/hour, 0.05 ton PE/year
	OAC rule 3745-17-11(B)	see A.I.2.c
	OAC rule 3745-17-07(A)	visible PE shall not exceed 20 percent opacity, as a six-minute average, except as otherwise provided by law.
	40 <u>CFR</u> Part 60, Subpart DD	none (see A.I.2.d)

2. Additional Terms and Conditions

- 2.a The permittee shall employ best available control technology (BACT) on this emissions unit. BACT has been determined to be the use of a baghouse with a capture efficiency of 100 percent and a removal efficiency of 99.9 percent.
- 2.b The requirements of this rule also include compliance with the requirements of OAC rules 3745-31-10 through 20, and OAC rule 3745-17-07(A).

Emissions Unit ID: P116

- 2.c** The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-10 through 20, and OAC rule 3745-31-05(A)(3).
- 2.d** This operation is not an affected facility in accordance with this standard. Therefore, there are no applicable emission limitations established.

II. Operational Restrictions

- The pressure drop across the baghouse shall be maintained within the range of 2-5 inches of water while the emissions unit is in operation.

III. Monitoring and/or Recordkeeping Requirements

- 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 recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop across the baghouse on a weekly basis.

IV. Reporting Requirements

- The permittee shall submit pressure drop deviation (excursion) reports that identify all periods of time during which the pressure drop across the baghouse did not comply with the allowable range specified in section A.II.1 of the terms and conditions of this permit. This deviation report shall be submitted in accordance with the General Terms and Conditions of this permit.

V. Testing Requirements

- Compliance Methods Requirements: Compliance with the emission limitation(s) in section A.I of the terms and conditions of this permit shall be determined in accordance with the following method(s):

- Emission Limitation:
0.011 pound PE/hour, 0.05 ton PE/year

Applicable Compliance Method:

The permittee shall demonstrate compliance with this emission limitation by multiplying the baghouse manufacturer's guaranteed emission rate (0.0025 grain/dry standard cubic foot) by the baghouse air flow rate (500 cubic feet/minute) and converting this value to pounds/hour by multiplying by 60 minutes/hour and dividing by 7000 grains/pound. If required, the permittee shall demonstrate compliance with this emission limitation through the test method specified in 40 CFR Part 60, Appendix A.

The tons/year emission limitation was developed by multiplying the pound/hour limitation

226

Centra

PTI A₁

Issued: 11/29/2001

Emissions Unit ID: P116

by the maximum operating schedule of 8760 hours/year and dividing by 2000 pounds/ton. Therefore, provided compliance is shown with the hourly limitation, compliance will also be shown with the annual limitation.

- b. Emission Limitation:
20 percent opacity as a six-minute average

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance in accordance with OAC rule 3745-17-03(B)(1).

VI. Miscellaneous Requirements

None

B. State Only Enforceable Section

I. 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>
P116 - bulk soy flour loadout, with settling chamber and 2 baghouses (parallel)	None	None

2. Additional Terms and Conditions

- 2.a None

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

228

Central Soya Company Inc
PTI Application: **02 12260**
Issued

Facility ID: **0339010005**

None

Emissions Unit ID: P116