



State of Ohio Environmental Protection Agency

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Lazarus Gov.  
Center

**RE: FINAL PERMIT TO INSTALL MODIFICATION CERTIFIED MAIL  
HURON COUNTY  
Application No: 03-13045**

**DATE:** 6/14/2001

Central Soya Company Inc  
Ray Bowns  
P O Box 369 605 Goodrich Road  
Bellevue, OH 44811

Enclosed Please find a modification to the Ohio EPA Permit To Install referenced above which will modify the terms and conditions.

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, Manager  
Field Operations and Permit Section  
Division of Air Pollution Control

CC: USEPA

NWDO



**Permit To Install  
Terms and Conditions**

**Issue Date: 6/14/2001  
Effective Date: 6/14/2001**

FINAL ADMINISTRATIVE MODIFICATION OF PERMIT TO INSTALL 03-13045

Application Number: **03-13045**  
APS Premise Number: **0339010005**  
Permit Fee: **\$1000**  
Name of Facility: **Central Soya Company Inc**  
Person to Contact: **Ray Bowns**  
Address: **P O Box 369 605 Goodrich Road  
Bellevue, OH 44811**

Location of proposed air contaminant source(s) [emissions unit(s)]:  
**605 Goodrich Rd  
Bellevue, OHIO**

Description of modification:  
**Modification of 5 emissions units (P011, P020, P051, P066 and P067) to increase the throughput.**

The above named entity is hereby granted a modification to the permit to install described above pursuant to Chapter 3745-31 of the Ohio Administrative Code. Issuance of this modification 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 source(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 included in the application, the above described source(s) of pollutants will be granted the necessary operating permits.

This permit is granted subject to the conditions attached hereto.

Ohio Environmental Protection Agency

Director

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**Modification Issued: 6/14/2001**

Facility ID: **0339010005**

## **GENERAL PERMIT CONDITIONS**

### **TERMINATION OF PERMIT TO INSTALL**

Substantial construction for installation must take place within 18 months of the effective date of this permit. 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.

### **NOTICE OF INSPECTION**

The Director of the Ohio Environmental Protection Agency, or his authorized representatives, may enter upon the premises of the above-named applicant during construction and operation at any reasonable time for the purpose of making inspections, conducting tests, or to examine records or reports pertaining to the construction, modification or installation of the source(s) of environmental pollutants identified within this permit.

### **CONSTRUCTION OF NEW SOURCES**

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.

### **PERMIT TO INSTALL FEE**

In accordance with Ohio Revised Code 3745.11, the specified Permit to Install fee must be remitted within 30 days of the effective date of this permit to install.

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### **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.

### **APPLICABILITY**

This Permit to Install is applicable only to the contaminant sources identified. Separate application must be made to the Director for the installation or modification of any other contaminant sources.

### **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.

### **PERMIT TO OPERATE APPLICATION AND OPERATION AFTER COMPLETION OF CONSTRUCTION**

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).

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.

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<u>Ohio EPA Source Number</u>	<u>Source Identification Number</u>	<u>BAT Determination</u>	<u>Applicable Federal &amp; OAC Rules</u>	<u>Permit Allowable Mass Emissions and/or Control/Usage Requirements</u>
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**AIR EMISSION SUMMARY**

The air contaminant emissions units listed below comprise the Permit to Install for **Central Soya Company Inc** located in **Huron** County. The emissions units listed below shall not exceed the emission limits/control requirements contained in the table. This condition in no way limits the applicability of any other state or federal regulations. Additionally, this condition does not limit the applicability of additional special terms and conditions of this permit.

Ohio EPA Source Number	P043 (Mod)			P066 (Mod) Cont'd
P011 (Mod)			P060 (Mod)	
	P043 (Mod) Cont'd			P077 (Mod)
P020 (Mod)	P051 (Mod)	P051 (Mod) Cont'd		
			P066 (Mod)	

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<u>Ohio EPA Source Number</u>	<u>Source Identification Number</u>	<u>BAT Determination</u>	<u>Applicable Federal &amp; OAC Rules</u>	<u>Permit Allowable Mass Emissions and/or Control/Usage Requirements</u>
	baghouse: modified by increasing the air flow by 1000 ACFM	increasing throughput; administrative modification to PTI No. 03-13045 to increase the short-term (i.e., tons/month) emission limitations for hexane and alcohol usage	to the changes to P051 (above)	
<u>Source Identification on Description</u>				<u>BAT Determination</u>
Primary and secondary hull refining with 2 baghouses: modified by increasing the air flow by 5000 ACFM	Conventional soybean extraction with 3 cyclones, a condenser and an absorber: modified due to the changes to P051 (below)		Soybean meal cooler with a cyclone: modified by adding a stacked tray extension to the system, thereby increasing throughput	Use of 2 baghouses and compliance with the terms and conditions of this permit
	Specialty soybean extraction with 3 baghouses and a condenser: modified by replacing old extractor with a new, larger extractor, thereby	Ethanol soybean extraction operation with condenser: modified emission limitations due	Clean bean conveying with baghouse: modified by increasing the air flow by 100 ACFM	Use of baghouse and compliance with the terms and conditions of this permit
Millfeed grinding with				

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<u>Ohio EPA Source Number</u>	<u>Source Identification Number</u>	<u>BAT Determination</u>	<u>Applicable Federal &amp; OAC Rules</u>	<u>Permit Allowable Mass Emissions and/or Control/Usage Requirements</u>
Compliance with Ohio EPA's Air Toxics Policy, use of non-photochemically reactive materials, use of 3 cyclones, a condenser and an absorber and compliance with the terms and conditions of this permit	Compliance with Ohio EPA's Air Toxics Policy, use of non-photochemically reactive materials, use of 3 baghouses and a condenser and compliance with the terms and conditions of this permit	Use of condenser and compliance with the terms and conditions of this permit	Use of baghouse and compliance with the terms and conditions of this permit	Applicable Federal & OAC Rules 3745-31-05
				3745-17-11(B)
				3745-17-07(A)
				3745-31-05
				3745-17-11(B)
				3745-17-07(A)
		Use of a cyclone and compliance with the terms and conditions of this permit		3745-31-05

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<u>Ohio EPA Source Number</u>	<u>Source Identification Number</u>	<u>BAT Determination</u>	<u>Applicable Federal &amp; OAC Rules</u>	<u>Permit Allowable Mass Emissions and/or Control/Usage Requirements</u>
		3745-21-07(G)	Permit Allowable Mass Emissions and/or Control/Usage Requirements	Combined OC emissions of hexane from P051 and P043: 20.82 pounds OC/hour from stack and 52.7 pounds OC/hour fugitive
		3745-31-05	0.80 pound particulate emissions (PE)/hour, 3.50 tons PE/year (See Additional Special Terms and Conditions)	85.0 tons OC/month, 811.2 tons OC/year (refer to Additional Special Terms and Conditions)
	3745-21-07(G)	3745-17-11(B)	*	
3745-31-05		3745-17-07(A)	Visible PE shall not exceed 20 percent opacity, as a six-minute average, except as otherwise provided by rule	2.30 pounds PE/hour, 10.1 tons PE/year
	3745-17-11(B)			Combined OC emissions of hexane from P051 and P043:
	3745-17-07(A)			
		3745-31-05	0.214 pound PE/hour, 0.94 ton PE/year	20.82 pounds OC/hour from stack and 52.7 pounds OC/hour fugitive
	3745-31-05	3745-17-11(B)	*	
		3745-17-07(A)	Visible PE shall not exceed 20 percent opacity, as a six-minute average, except as otherwise provided by rule	85.0 tons OC/month, 811.2 tons OC/year (refer to Additional Special Terms and Conditions)
			5.48 pounds PE/hour, 24.0 tons PE/year	Combined OC emissions of ethanol from P051 and P060:

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<u>Ohio EPA Source Number</u>	<u>Source Identification Number</u>	<u>BAT Determination</u>	<u>Applicable Federal &amp; OAC Rules</u>	<u>Permit Allowable Mass Emissions and/or Control/Usage Requirements</u>
11.3 pounds OC/hour from stack	provided by rule Combined OC emissions of ethanol from P051 and P060:	0.043 pound PE/hour, 0.19 ton PE/year  *		
58.0 tons OC/month, 552.0 tons OC/year (Refer to Additional Special Terms and Conditions )	11.3 pounds OC/hour from stack 58.0 tons OC/month, 552.0 tons OC/year (Refer to Additional Special Terms and Conditions )		Visible PE shall not exceed 20 percent opacity, as a six-minute average, except as otherwise provided by rule	
No limitation established due to use of non-photochemically reactive materials	No limitation established due to use of non-photochemically reactive materials 3.66 pounds PE/hour, 16.0 tons PE/year			
Visible PE shall not exceed 20 percent opacity, as a six-minute average, except as otherwise	* 2.93 pounds PM <sub>10</sub> /hour, 12.8 tons PM <sub>10</sub> /year  *			
	Visible PE shall not exceed 20 percent opacity, as a six-minute average, except as otherwise provided by rule			

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\* The PE limitation based on this applicable rule is less stringent than the limitation established pursuant to OAC rule 3745-31-05.

SUMMARY  
TOTAL PERMIT TO INSTALL ALLOWABLE EMISSIONS

<u>Pollutant</u>	<u>Tons/Year</u>
PE	30.73*
OC	1,363.2**

\* The increase in the allowable PE as a result of this PTI is 9.71 tons/year.

\*\* The modification to emissions unit P051 does not result in an increase in the allowable OC emission rates.

**REPORTING REQUIREMENTS**

Unless otherwise specified, reports required by the Permit to Install need only be submitted to Ohio EPA, Northwest District Office, 347 North Dunbridge Road, Bowling Green, OH 43402.

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### **WASTE DISPOSAL**

The owner/operator shall comply with any applicable state and federal requirements governing the storage, treatment, transport and disposal of any waste material generated by the operation of the sources.

### **MAINTENANCE OF EQUIPMENT**

This source and its associated air pollution control system(s) shall be maintained regularly in accordance with good engineering practices and the recommendations of the respective manufacturers in order to minimize air contaminant emissions.

### **MALFUNCTION/ABATEMENT**

In accordance with OAC RULE 3745-15-06, any malfunction of the source(s) or associated air pollution control system(s) shall be reported immediately to the Ohio EPA, Northwest District Office, 347 North Dunbridge Road, Bowling Green, OH 43402.

Except as provided by OAC Rule 3745-15-06(A)(3), scheduled maintenance of air pollution control equipment that requires the shutdown or bypassing of air pollution control system(s) must be accompanied by the shutdown of the associated air pollution sources.

### **AIR POLLUTION NUISANCES PROHIBITED**

The air contaminant source(s) identified in this permit may not cause a public nuisance in violation of OAC Rule 3745-15-07.

### **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.

### **ADDITIONAL SPECIAL TERMS AND CONDITIONS**

#### **Introduction**

Central Soya Company, Inc., plans to modify certain operations at the Bellevue facility which will result in increased particulate and OC emissions. The units to be modified through this Permit to Install (PTI) are hull refining (P011), millfeed grinding (P020), specialty soybean extraction (P051), soybean meal cooler (P066) and

clean bean conveying (P077).

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

1. The combined PE from the two baghouses associated with emissions unit P011 shall be limited to 0.80 pound/hour. Total PE from this emissions unit shall not exceed 3.50 tons/year. All PE from the two baghouses are assumed to be PM<sub>10</sub>.
2. PE from emissions unit P020 shall be limited to 0.214 pound/hour. Total PE from this emissions unit shall not exceed 0.94 ton/year. All PE from the baghouse are assumed to be PM<sub>10</sub>.
3. The combined PE from the three baghouses associated with emissions unit P051 shall be limited to 2.30 pounds/hour. Total PE from this emissions unit shall not exceed 10.1 tons/year. All PE from the three baghouses are assumed to be PM<sub>10</sub>.
4. Hexane consumption, i.e., 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., emission rates shall not exceed the following levels:
  - a. total stack hexane emissions from emissions units P043 and P051 shall be limited to 20.82 pounds/hour. Total fugitive hexane emissions shall be limited to 52.7 pounds/hour;
  - b. total hexane consumption in emissions units P043 and P051 shall not exceed 285,400 gallons (811.2 tons)/rolling 12-month period;
  - c. total hexane consumption in emissions units P043 and P051 shall not exceed 0.388 gallon/ton 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,
  - d. the short-term loss of hexane from emissions units P043 and P051 shall not exceed 85.0 tons/month.
5. Alcohol consumption, i.e., emission rates (or inventory losses, as applicable) 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:
  - a. total stack ethanol emissions from emissions units P051 and P060 shall be limited to 11.3 pounds/hour;
  - b. total alcohol consumption in emissions units P051 and P060 shall not exceed 162,353

gallons (552.0 tons)/rolling 12-month period; and,

- c. the short-term loss of alcohol from emissions units P051 and P060 shall not exceed 58.0 tons/month.
6. PE from emissions unit P066 shall be limited to 3.66 pounds/hour. Total PE from this emissions unit shall not exceed 16.0 tons/year. PM<sub>10</sub> emissions from this unit shall be limited to 2.93 pounds/hour. Total PM<sub>10</sub> emissions from this unit shall not exceed 12.8 tons/year.
7. PE from emissions unit P077 shall be limited to 0.043 pound/hour. Total PE from this emissions unit shall not exceed 0.19 ton/year. All PE from the baghouse are assumed to be PM<sub>10</sub>.
8. Visible PE from any baghouse or cyclone stack shall not exceed 20 percent opacity, as a six-minute average, except as otherwise provided by rule.
9. The permittee shall employ 2 baghouses (CEPREPA and CEPREPB) to control the PE from emissions unit P011.
10. The permittee shall employ a baghouse (CEPREPB) to control the PE from emissions unit P020.
11. The permittee shall employ 3 baghouses (CEPREPA, CEPREPB and CEP051A) to control the PE from emissions unit P051.
12. The permittee shall employ the white flake mineral oil vent system (CEP051B) to control OC emissions from emissions unit P051.
13. The permittee shall employ a cyclone (CEP066A) to control PE from emissions unit P066.
14. The permittee shall employ a baghouse (CEPREPA) to control the PE from emissions unit P077.
15. The permittee shall employ 3 cyclones (CEP043A, CEP043B and CEP043C) to control PE from emissions unit P043.
16. The permittee shall employ a condenser (CEP043E) to control OC emissions from emissions unit P043.
17. The permittee shall employ a condenser (CEP060A) to control OC emissions from emissions unit P060.

**B. Operational Restrictions**

1. The pressure drop across each baghouse (CEPREPA, CEPREPB and CEP051A) and each cyclone (CEP066A, CEP043A, CEP043B and CEP043C) shall be maintained within the range of 0.5-10 inches of water while the associated emissions units are in operation.

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

1. The permittee shall properly install, operate, and maintain equipment to monitor the pressure drop across each baghouse (CEPREPA, CEPREPB and CEP051A) and each cyclone (CEP066A, CEP043A, CEP043B, CEP043C) while the associated emissions units are 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 and each cyclone on a weekly basis.
2. The permittee shall perform weekly checks, when each emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack(s) serving each emissions unit. The presence or absence of any visible emissions shall be noted in an operations log for each unit. 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. The permittee shall collect and record the following information on a monthly basis for emission units P043 and P051 combined:
  - a. the total quantity of soybeans weighed in the preparation process before the hexane extraction operation;
  - b. the total amount of hexane inventory lost in gallons/month;
  - c. the 6-month rolling weighted average hexane loss rate (gallons per ton of crushed soybeans, and pounds hexane per pound crushed soybeans);
  - d. the amount of hexane emitted in tons/month;

- e. the amount of hexane emitted in tons/rolling 12-month;
  - f. all incidents of startup or shutdown of the emission units. (This should include 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.
4. The permittee shall collect and record the following information on a monthly basis for emission units P051 and P060 combined:
- a. the total quantity of soybeans weighed in the preparation process before the alcohol extraction operation;
  - b. the total amount of alcohol inventory lost in gallons/month;
  - c. the amount of alcohol emitted in tons/month;
  - d. the amount of alcohol emitted in tons/rolling 12-month period;
  - e. all incidents of startup or shutdown of the emission units. (This should include all amounts of alcohol that are routinely added to the system or returned to the storage tanks due to startup or shutdown. This amount of alcohol is process alcohol 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 alcohol used to "recharge" the system should not be interpreted as an "alcohol loss" in calculating emission rates);
  - f. dates of scheduled cleaning/maintenance; and,
  - g. dates of any process upsets.
5. 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, if a strip-chart recorder is employed, for continuous monitoring instrumentation, and copies of all reports required by the permit. Such records may be maintained

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in computerized form.

**D. Reporting Requirements**

1. The permittee shall submit semiannual written reports which (a) identify all days during which any visible particulate emissions were observed from the stack(s) serving any emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Director (the Ohio EPA, Northwest District Office) by January 31 and July 31 of each year and shall cover the previous 6-month period.
2. The permittee shall submit reports in the following manner:
  - a. reports of any required information shall be submitted to the Ohio EPA, Northwest District Office; and,
  - b. quarterly written reports of (i) any deviations (excursions) from emission limitations, operational restrictions, and control device operating parameter limitations that have been detected by the testing, monitoring, and recordkeeping requirements specified in this permit, (ii) the probable cause of such deviations, and (iii) any corrective actions or preventive measures which have been or will be taken, shall be submitted to the Ohio EPA, Northwest District Office. If no deviations occurred during a calendar quarter, a quarterly report shall be submitted which states that no deviations occurred during that quarter. The reports shall be submitted by January 31, April 30, July 31, and October 31 of each year and shall cover the previous calendar quarters.
3. The compliance status of each emissions unit shall be reported pursuant to the annual certification required by OAC rule 3745-77-07(C)(5).
4. The actual annual emissions data for each emissions unit shall be reported pursuant to the fee emissions report required by OAC rule 3745-78-02(A).

**E. Testing Requirements/Compliance Methods Determination**

1. Compliance Methods Requirements: Compliance with the emission limitation(s) in this permit shall be determined in accordance with the following method(s):
  - a. Emission Limitation  
Hull refining (P011) - 0.80 pound PE/hour, 3.50 tons/year

Applicable Compliance Method

The permittee may demonstrate compliance with the hourly PE limitation of 0.80 pound by multiplying the baghouse manufacturer-guaranteed outlet grain loading (0.005 grain/cubic foot) by the actual volumetric air flow rate (cubic feet/minute). As long as compliance is maintained with the hourly emission limitation, the unit will be in compliance with the annual emission limitation as the annual limitation is based on the hourly emission limitation at 8760 hours/year. If required, the test method to be employed to demonstrate compliance with the PE limitation shall be Method 5, which is located in 40 CFR Part 60, Appendix A.

b. Emission Limitation

Millfeed grinding (P020) - 0.214 pound PE/hour, 0.94 ton/year

Applicable Compliance Method

The permittee may demonstrate compliance with the hourly PE limitation of 0.214 pound by multiplying the baghouse manufacturer-guaranteed outlet grain loading (0.005 grain/cubic foot) by the actual volumetric air flow rate (cubic feet/minute). As long as compliance is maintained with the hourly emission limitation, the unit will be in compliance with the annual emission limitation as the annual limitation is based on the hourly emission limitation at 8760 hours/year. If required, the test method to be employed to demonstrate compliance with the PE limitation shall be Method 5, which is located in 40 CFR Part 60, Appendix A.

c. Emission Limitation

Specialty soybean extraction (P051) - 2.30 pounds PE/hour, 10.1 tons/year

Applicable Compliance Method

The permittee may demonstrate compliance with the hourly PE limitation of 2.30 pounds by multiplying the baghouse manufacturer-guaranteed outlet grain loading (0.005 grain/cubic foot) by the actual volumetric air flow rate (cubic feet/minute). As long as compliance is maintained with the hourly emission limitation, the unit will be in compliance with the annual emission limitation as the annual limitation is based on the hourly emission limitation at 8760 hours/year. If required, the test method to be employed to demonstrate compliance with the PE limitation shall be Method 5, which is located in 40 CFR Part 60, Appendix A.

d. Emission Limitation

Specialty soybean extraction (P051) and Conventional soybean extraction (P043) combined - 85.0 tons OC/month, 811.2 tons/rolling 12-month period

Applicable Compliance Method

The permittee shall demonstrate compliance with the monthly OC emission limitation of 85.0 tons and with the annual OC emission limitation of 811.2 tons/rolling 12-month period by maintaining monthly records as specified in section C.2 of the Additional Special Terms and Conditions of this permit.

e. Emission Limitation

Specialty soybean extraction (P051) and Conventional soybean extraction (P043) combined - 0.388 gallon hexane/ton crushed soybeans, based on a 6-month rolling, weighted average

Applicable Compliance Method

The permittee shall demonstrate compliance with the OC emission limitation of 0.388 gallon/ton crushed soybeans by maintaining monthly records as specified in section C.2 of the Additional Special Terms and Conditions of this permit.

f. Emission Limitation

Specialty soybean extraction (P051) and Ethanol soybean extraction (P060) combined - 58.0 tons OC/month, 552.0 tons/year

Applicable Compliance Method

The permittee shall demonstrate compliance with the monthly OC emission limitation of 58.0 tons and with the annual OC emission limitation of 552.0 tons/year by maintaining monthly records as specified in section C.3 of the Additional Special Terms and Conditions of this permit.

g. Emission Limitation

Soybean meal cooler (P066) - 3.66 pounds PE/hour, 16.0 tons/year

Applicable Compliance Method

The permittee may demonstrate compliance with the hourly PE limitation of 3.66 pounds by multiplying the emission rate (0.812 pound/hour) from a stack test on a similar, but

smaller unit, by the ratio of the capacities (2700 tons/day divided by 1200 tons/day). As long as compliance is maintained with the hourly emission limitation, the unit will be in compliance with the annual emission limitation as the annual limitation is based on the hourly emission limitation at 8760 hours/year. If required, the test method to be employed to demonstrate compliance with the PE limitation shall be Method 5, which is located in 40 CFR Part 60, Appendix A.

h. Emission Limitation

Soybean meal cooler (P066) - 2.93 pounds PM<sub>10</sub>/hour, 12.8 tons PM<sub>10</sub>/year

Applicable Compliance Method

The permittee may demonstrate compliance with the hourly and annual PM<sub>10</sub> limitations by multiplying the hourly and annual PE rate (refer to E.1.g of the terms and conditions of this permit) by a factor of 80% (the permittee has determined that 80% of the PE are PM<sub>10</sub>). If required, the test method to be employed to demonstrate compliance with the PM<sub>10</sub> limitation shall be Method 5, which is located in 40 CFR Part 60, Appendix A (including the weight of the back half of the filter).

i. Emission Limitation

Clean bean conveying (P077) - 0.043 pound PE/hour, 0.19 ton/year

Applicable Compliance Method

The permittee may demonstrate compliance with the hourly PE limitation of 0.043 pound by multiplying the baghouse manufacturer-guaranteed outlet grain loading (0.005 grain/cubic foot) by the actual volumetric air flow rate (cubic feet/minute). As long as compliance is maintained with the hourly emission limitation, the unit will be in compliance with the annual emission limitation as the annual limitation is based on the hourly emission limitation at 8760 hours/year. If required, the test method to be employed to demonstrate compliance with the PE limitation shall be Method 5, which is located in 40 CFR Part 60, Appendix A.

j. Emission Limitation

Emissions units P011, P020, P051, P066 and P077 - visible PE shall not exceed 20 percent opacity, as a six-minute average, except as otherwise provided by rule

Applicable Compliance Method

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Compliance with the visible PE limitation shall be demonstrated through the monitoring/ Record keeping and reporting required in section C.2 and section D.2, respectively. If required, the permittee shall demonstrate compliance with the visible PE limitation by employing the method detailed in OAC rule 3745-17-03(B)(1).

**F. Miscellaneous Requirements**

None.