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Facility Name: **Central Soya Company, Inc**

Application Number: **03-1260**

Date: **July 1, 1998**

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 SOURCE(S)

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

If the construction of the proposed source(s) has already begun or has been completed prior to the date the Director of the Ohio 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 Ohio Administrative Code

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(OAC) Rule 3745-31-02. Furthermore, issuance of the Permit to Install does not constitute an assurance that the proposed source will operate in compliance with all Ohio laws and regulations. Approval of the plans in any case is not to be construed as an approval of the facility as constructed and/or completed. Moreover, issuance of the Permit to Install is not to be construed as a waiver of any rights that the Ohio Environmental Protection Agency (or other persons) may have against the applicant for starting construction prior to the effective date of the permit. Additional facilities shall be installed upon orders of the Ohio Environmental Protection Agency if the proposed facilities prove to be inadequate or cannot meet applicable standards.

PERMIT TO INSTALL FEE

In accordance with Ohio Revised Code 3745.11, the specified Permit to Install fee must be remitted within 15 days of the effective date of this permit to install.

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.

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PERMIT TO OPERATE APPLICATION

A Permit to Operate application must be submitted to the appropriate field office for each air contaminant source in this Permit to Install. In accordance with OAC Rule 3745-35-02, the application shall be made at least 90 days prior to start-up of the source.

NINETY DAY OPERATING PERIOD

The facility will be permitted to operate during a 90-day period in accordance with OAC Rule 3745-35-02(C)(4)(b). The purpose of this period of operation is to fulfill the performance tests conditions used in the determination of compliance with the provisions of this Permit to Install or other applicable Ohio EPA rules.

SOURCE OPERATION AFTER COMPLETION OF CONSTRUCTION

This facility is permitted to operate each source described by this permit to install for period of up to one year from the date the source commenced operation. This permission to operate is granted only if the facility complies with all requirements contained in this permit and all applicable air pollution laws, regulations, and policies.

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<u>Ohio EPA Source Number</u>	<u>Source Identification Number</u>	<u>BAT Determination</u>	<u>Applicable Federal & 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.

<u>Ohio EPA Source Number</u>	<u>Source Identification Description</u>	<u>BAT Determination</u>	<u>Applicable Federal & OAC Rules</u>
B010 (Modifica- tion)	91.2 mmBTU/hour natural gas-fired boiler (86.9 mmBTU/hour when employing number 2 fuel oil as backup) - modification to increase the allowable emission limitations based on stack test data and revised manufacturer's guarantee data	Use of low-NO _x burner 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 & OAC Rules</u>	<u>Permit Allowable Mass Emissions and/or Control/Usage Requirements</u>
3745-17-07 (A) 3745-17-10 (B) (1) 3745-18-06 (D) 40 CFR Part 60, Subpart Dc		Permit Allowable Mass Emissions and/or Control/Usage Requirements	(14.0 pounds/hour, 61.3 TPY)	<u>When No. 2 fuel oil is combusted:</u>
			0.136 pound CO/mmBTU (11.8 pounds/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 emissions shall not exceed 27 percent opacity.
		<u>when natural gas is combusted (91.2 mmBtu/hour)</u>	0.0136 pound VOC/mmBTU (1.18 pounds/hour, 5.17 TPY)	
		0.014 pound particulate emissions (PE)/mmBTU (1.25 pound/hour)	<u>When natural gas is combusted:</u>	
		0.0006 pound SO ₂ /mmBTU (0.055 pound/hour)	visible PE shall not exceed 20 percent	*
		0.140 pound No _x /mmBTU (12.8 pounds/hour)	opacity, as a six-minute average, except as provided by rule.	*
		0.134 pound CO/mmBTU (12.2 pounds/hour, 53.4 TPY)		
		0.0071 pound VOC/mmBTU (0.65 pound/hour)	<u>When No. 2 fuel oil is combusted:</u>	
		<u>when No. 2 fuel oil is combusted (86.9 mmBTU/hour)</u>	0.50 pound SO ₂ /mmBTU (43.4 pounds/hour, 190.1 TPY)	
		0.016 pound PE/mmBTU (1.40 pound/hour, 6.13 TPY)	(refer to Additional Special Term and Condition B.1)	
	0.161 pound No _x /mmBTU			

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

NOTE: The tons/year limitations established in this permit are based on the worst-case hourly emission rates at 8,760 hours/year dependant upon the type of fuel employed (i.e., natural gas or number 2 fuel oil).

SUMMARY

TOTAL PERMIT TO INSTALL ALLOWABLE EMISSIONS

<u>Pollutant</u>	<u>Tons/Year</u>
PE	6.13
SO ₂	190.1*
No _x	61.3*
CO	53.4
VOC	5.17

* The previous PTI No. 03-9654 issued on November 27, 1996 established limitations based on emission factors that proved to be erroneous based on the stack testing that was conducted. PTI NO. 03-1260 shall serve to modify the emission limitations. This modification results in increases of 5.7 TPY of No_x and 190.0 TPY of SO₂ and requires a netting determination for purposes of PSD avoidance.

NSPS REQUIREMENTS

The following sources are subject to the applicable provisions of the New Source Performance Standards (NSPS) as promulgated by the United States Environmental Protection Agency, 40 CFR Part 60.

Source

Number

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B010

<u>Source</u>	<u>Description</u>	<u>NSPS Regulation (Subpart)</u>
	Boiler	Dc

The application and enforcement of these standards are delegated to the Ohio EPA. The requirements of 40 CFR Part 60 are also federally enforceable.

Pursuant to the NSPS, the source owner/operator is hereby advised of the requirement to report the following at the appropriate times:

- 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).

Reports are to be sent to:

Ohio Environmental Protection Agency
DAPC - Permit Management Unit
P.O. Box 163669
Columbus, OH 43216-3669

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

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.**

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.

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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.

ADDITIONAL SPECIAL TERMS AND CONDITIONS

A. Applicable Emission Limitations and/or Control Requirements

1. No additional emission limitations and/or control requirements other than those identified in the Air Emission Summary section of this permit.

B. Operational Restrictions

1. As an alternative to compliance with the limitation of 0.50 pound/million BTU while employing number 2 fuel oil, the permittee may opt to burn oil in emissions unit B010 that does not contain greater than 0.5 weight percent sulfur.

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2. The quality of the oil burned in this emissions unit shall either comply with the 0.5 weight percent sulfur option in condition B.1. of the Additional Special Terms and Conditions of this permit or meet the following specifications on an "as received" basis:
 - a. a sulfur content which is sufficient to comply with the allowable sulfur dioxide emission limitation of 0.50 pound/million BTU actual heat input; and,
 - b. greater than 0.14 million 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.

C. Monitoring and/or Recordkeeping Requirements

1. The permittee shall collect and record the following information for each month for this emissions unit:
 - a. the quantity of natural gas burned, in cubic feet;
 - b. the quantity of number 2 fuel oil burned, 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; and,
 - 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 0.5 weight percent sulfur.
2. For each shipment of oil, the permittee shall obtain a fuel supplier certification which includes the following information:

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- 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.
3. 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 in computerized form.

D. Reporting Requirements

1. 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. except as otherwise may be provided in the terms and conditions for a specific emissions unit, 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

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30, July 31, and October 31 of each year and shall cover the previous calendar quarters.

2. The compliance status of the emissions unit shall be reported pursuant to the annual certification required by OAC rule 3745-77-07(C) (5).
3. The actual annual emissions data for the emissions unit shall be reported pursuant to the fee emissions report required by OAC rule 3745-78-02(A).

E. Testing Requirements/Compliance Methods Determinations

1. Emissions Testing Requirements: The permittee shall conduct, or have conducted, emission testing for this emissions unit in accordance with the following requirements when or if the permittee ever burns number 2 fuel oil with a sulfur content that exceeds 0.5 percent by weight.
 - a. The emission testing shall be conducted within 60 days after the initial use of number 2 fuel oil with a sulfur content that exceeds 0.5 percent by weight.
 - b. The emission testing shall be conducted to demonstrate compliance with the sulfur dioxide emission limitation of 0.50 pound/million BTU heat input.
 - c. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s): Method 19, Appendix A.
 - d. 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 Ohio EPA, Northwest District Office.

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Ohio EPA, Northwest District Office. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters,

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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, Northwest District Office's refusal to accept the results of the emission test(s).

Personnel from the Ohio EPA, Northwest District Office 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 Ohio EPA, Northwest District Office within 30 days following completion of the test(s).

2. Compliance Methods Requirements: Compliance with the emission limitation(s) in this permit shall be determined in accordance with the following method(s):

When natural gas is combusted:

a. Emission Limitation

0.014 pound PE/million BTU (1.25 pounds/hour)

Applicable Compliance Method

The permittee may calculate the actual hourly PE emission rate for the unit utilizing the AP-42 emission factor from Table 1.4-1 (revised January 1995) and the actual hourly natural gas usage rate. If required, the permittee shall conduct testing in accordance with the provisions of Method 5 which is located in 40 CFR Part 60, Appendix A.

b. Emission Limitation

0.0006 pound sulfur dioxide/million BTU (0.055

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pound/hour)

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Applicable Compliance Method

The permittee may calculate the actual hourly SO₂ emission rate for the unit utilizing the AP-42 emission factor from Table 1.4-2 (revised January 1995) and the actual hourly natural gas usage rate. If required, the permittee shall conduct testing in accordance with the provisions of Method 6 which is located in 40 CFR Part 60, Appendix A.

c. Emission Limitation

0.140 pound nitrogen oxides/million BTU (12.8 pounds/hour)

Applicable Compliance Method

The permittee may calculate the actual hourly NO_x emission rate for the unit utilizing the AP-42 emission factor from Table 1.4-2 (revised January 1995) and the actual hourly natural gas usage rate. If required, the permittee shall conduct testing in accordance with the provisions of Method 7 which is located in 40 CFR Part 60, Appendix A.

d. Emission Limitation

0.134 pound carbon monoxide/million BTU (12.2 pounds/hour, 53.4 tons/year)

Applicable Compliance Method

The permittee may calculate the actual hourly CO emission rate for the unit utilizing the manufacturer's guaranteed emission rate of 150 ppm and the actual hourly natural gas usage rate. 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 8,760 hours/year. If required, the permittee shall conduct testing in

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accordance with the provisions of Method 10 which is located in 40 CFR Part 60, Appendix A.

e. Emission Limitation

0.0071 pound OC/million BTU (0.65 pound/hour)

Applicable Compliance Method

The permittee may calculate the actual hourly OC emission rate for the unit utilizing the manufacturer's guaranteed emission rate of 8 ppm and the actual hourly natural gas usage rate. If required, the permittee shall conduct testing in accordance with the provisions of Method 25A which is located in 40 CFR Part 60, Appendix A.

f. Emission Limitation

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

Applicable Compliance Method

OAC rule 3745-17-03(B) (1).

When number 2 fuel oil is combusted:

g. Emission Limitation

0.016 pound PE/million BTU (1.40 pound/hour, 6.13 tons/year)

Applicable Compliance Method

The permittee may calculate the actual hourly PE emission rate for the unit utilizing the AP-42 emission factor from Table 1.3-2 (revised January 1995) and the actual hourly number 2 fuel oil usage rate. 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 8,760

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hours/year. If required, the permittee shall conduct testing in accordance with the provisions of Method 5 which is located in 40 CFR Part 60, Appendix A.

h. Emission Limitation

0.50 pound sulfur dioxide/million BTU (43.4 pounds sulfur dioxide/hour, 190.1 tons/year)

Applicable Compliance Method

Compliance with the hourly emission limitation shall be demonstrated through the recordkeeping requirements established in Section C of the Additional Special Terms and Conditions of this permit and the actual hourly number 2 fuel oil usage rate. 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 8,760 hours/year.

i. Emission Limitation

0.161 pound nitrogen oxides/million BTU (14.0 pounds/hour, 61.3 tons/year)

Applicable Compliance Method

The permittee may calculate the actual hourly NO_x emission rate for the unit utilizing the AP-42 emission factor from Table 1.3-2 (revised January 1, 1995) and the actual hourly number 2 fuel oil usage rate. 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 8,760 hours/year. If required, the permittee shall conduct testing in accordance with the provisions of Method 7 which is located in 40 CFR Part 60, Appendix A.

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j. Emission Limitation

0.136 pound carbon monoxide/million BTU (11.8
pounds/hour)

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Applicable Compliance Method

The permittee may calculate the actual hourly CO emission rate for the unit utilizing the manufacturer's guaranteed emission rate of 150 ppm and the actual hourly number 2 fuel oil usage rate. If required, the permittee shall conduct testing in accordance with the provisions of Method 10 which is located in 40 CFR Part 60, Appendix A.

k. Emission Limitation

0.0136 pound OC/million BTU (1.18 pounds/hour, 5.17 tons/year)

Applicable Compliance Method

The permittee may calculate the actual hourly OC emission rate for the unit utilizing the manufacturer's guaranteed emission rate of 15 ppm and the actual hourly number 2 fuel oil usage rate. 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 8,760 hours/year. If required, the permittee shall conduct testing in accordance with the provisions of Method 25 which is located in 40 CFR Part 60, Appendix A.

l. 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.

Applicable Compliance Method

Visible emission observations utilizing Method 9, which is located in 40 CFR Part 60, Appendix A, shall be conducted in accordance with the provisions of 40 CFR Part 60, section 60.11.

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F. Miscellaneous Requirements

1. The following terms and conditions shall supersede all of the air pollution control requirements contained in the Permit To Install application number 03-9654 issued for this emissions unit on November 27, 1996: A, C.1. and E.1.

2. Emissions units B001 and B003 were permanently shut down in September of 1993.