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Facility Name: **Cedar Lane Farms**

Application Number: **02-2745**

Date: **May 12, 1999**

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 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 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 (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

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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 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.

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.

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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

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 filed no later than thirty days after commencement of operation.

SOURCE OPERATION AFTER COMPLETION OF CONSTRUCTION

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

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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 **Cedar Lane Farms** located in **Wayne** 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.

B002

Ohio
EPA
Source
Number

B009

B009
Cont'd

B005
Cont'd

B002
Cont'd

B005

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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>
	Source Identification Description			
10	mmBtu/hour atmospheric fluidized bed coal-fired combustor and boiler (AFB10)		Burnhan 5.6 mmBtu/hour coal-fired underfeed stoker/boiler	
	Erie City 5.56 mmBtu/hour coal-fired, underfeed stoker/boiler			

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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>
		<p style="text-align: center;"><u>BAT Determination</u></p>		<p>Practices as outlined in OAC rule 3745-17-10 (C) (7) . Hours of operation limited to maximum of 360 per year; emissions unit to be operated only as back-up for B009 (when B009 is not operating) .</p>
		<p>Use of a cartridge filter baghouse to control particulate emissions; Min. Ca/S ration in limestone/coal feed shall be 2.5. Hours of operation limited to maximum of 5112 per year.</p>		<p>Practices as outlined in OAC rule 3745-17-10 (C) (7) . Hours of operation limited to maximum of 5112 per year.</p>

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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>
				3745-31-02 (A) (2)
	3745-31-05	3745-17-07 (A)	Applicable Federal & OAC Rules	
			3745-17-10 (C) (2)	
		3745-31-02 (A) (2)	3745-17-07 (A)	
				3745-17-10 (C) (2)
	3745-17-10 (C) (2)			3745-17-07 (A)

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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>
Permit Allowable Emissions and/or Control/Usage Requirements	and 14.93 TPY,	unit shall not exceed twenty (20) percent opacity, as a six-minute average, except as provided by rule.	exceed 0.60 pound/mmBtu (3.34 pounds/hour) and 8.54 TPY	d. PM = 3.36 pounds/hour and 0.60 TPY
	c. CO - 6.90 pounds/hour and 17.64 TPY	Emissions of the following pollutants shall not exceed:	Visible particulate emissions from the exhaust stack serving this emissions unit shall not exceed twenty (20) percent opacity, as a six-minute average, except as provided by rule.	See Additional Special Terms and Conditions for other specific restrictions.
Emissions of the following pollutants shall not exceed:	See Additional Special Terms and Conditions for other restrictions.	a. SO ₂ = 25.19 pounds/hour and 64.38 TPY,	Emissions of the following pollutants shall not exceed:	Particulate emissions from this emissions unit shall not exceed 0.60 pound/mmBtu.
	Particulate emissions from this emissions unit shall not exceed 0.60 pound/mmBtu (6.0 pounds/hour) and 15.34 TPY.	b. NO _x = 2.03 pounds/hour and 5.19 TPY,	as provided by rule.	Visible particulate emissions from the exhaust stack serving this emissions unit shall not exceed twenty (20) percent opacity, as a six-minute average, except as provided by rule.
a. SO ₂ = 1.3 pounds/mmBtu (13 pounds/hour) and 30.89 TPY,	Particulate emissions from this emissions unit shall not exceed 0.60 pound/mmBtu (6.0 pounds/hour) and 15.34 TPY.	c. CO - 2.35 pounds/hour and 6.01 TPY	Emissions of the following pollutants shall not exceed:	
b. NO _x = 5.84 pounds/hour	Visible particulate emissions from the exhaust stack serving this emissions	d. PM = 3.34 pounds/hour and 8.54 TPY	a. SO ₂ = 25.37 pounds/hour and 4.57 TPY,	
	emissions	See Additional Special Terms and Conditions for other specific restrictions.	b. NO _x = 2.05 pounds/hour and 0.37 TPY,	
	emissions	Particulate emissions from this emissions unit shall not	c. CO - 2.37 pounds/hour and 0.43 TPY	

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- Notes:
1. Emissions units B002 and B005 are re-permitted under this Synthetic Minor PTI to allow for specific restriction of sulfur dioxide emissions from this facility to below the major source threshold of 100 tons/year.
 2. Total facility allowable tons per year emissions for sulfur dioxide of 99.84 based on maximum permitted operation of B005 (360 hours/year) and subsequent reduced operation of B009 to 4752 hours per year.

SUMMARY

TOTAL PERMIT TO INSTALL ALLOWABLE EMISSIONS

<u>Pollutant</u>	<u>Tons/Year</u>
Sulfur Dioxide	99.84
Particulate	23.88
Nitrogen Oxides	20.12
Carbon Monoxide	23.65

PERFORMANCE TEST REQUIREMENTS

The permittee shall conduct, or have conducted, performance testing on the air contaminant source(s) in accordance with procedures approved by the Agency. Two copies of the written report describing the test procedures followed and the results of such tests shall be submitted and signed by the person responsible for the test. The Director, or an Ohio EPA representative, shall be allowed to witness the test, examine testing equipment, and require the acquisition or submission of data and information necessary to assure that the source operation and testing procedures provide a valid characterization of the emissions from the source and/or the performance of the control equipment.

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- A. A completed Intent to Test form shall be submitted to the appropriate Ohio EPA District Office or Local Air Pollution Control Agency where the original permit application was filed. This notice shall be made 30 days in advance and shall specify the source operating parameters, the proposed test procedures, and the time, date, place and person(s) conducting such tests.
- B. Two copies of the test results shall be submitted within 30 days after the completion of the performance test.
- C. Tests shall be performed for the following source(s) and pollutant(s):

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Source

Pollutant(s)

B009

Sulfur Dioxide

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

The primary emissions unit listed in this synthetic minor permit to install is a new, 10 mmBtu/hr, bubbling, atmospheric fluidized bed (AFB), coal-fired combustor/boiler (B009) which will physically replace an existing 2.2 mmBtu/hr AFB currently in use at Cedar Lane Farms. The installation and test operation of this new AFB combustor (AFBC10) is being co-sponsored by the U.S. Department of Energy Morgantown Energy Technology Center (METC), the Ohio Coal Development Office (OCDO), the Will-Burt Company, and Cedar Lane Farms, Inc. as a special, demonstration, reduced sulfur dioxide emissions unit. Included in this synthetic minor permit are new emissions restrictions on the other two existing coal-fired emissions units at this facility (B002 and B005) for the purpose of limiting the total facility emissions of sulfur dioxide to less than the major source threshold limit of 100 tons/year to avoid Title V permitting requirements.

A. Applicable Emissions Limitations

1. Per OAC Rule 3745-17-10(C)(2), Figure I, curve P-2, the particulate emissions from these emissions units shall not exceed 0.60 pound per million Btu (mmBtu) of heat input. Hourly and annual mass particulate emissions from each emissions unit shall not exceed the following values:
 - a. for B009, 6.00 pounds per hour and 15.34 tons per year (TPY);
 - b. for B002, 3.34 pounds per hour and 8.54 TPY; and,

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- c. for B005, 3.36 pounds per hour and 0.60 TPY.

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2. Sulfur dioxide (SO₂) emissions from this facility shall not exceed 99.86 tons per year. SO₂ emissions from all coal-fired emissions units (B002, B005, and B008) collectively shall not exceed 99.84 TPY; SO₂ emission rates from individual emissions units shall not exceed the following values:
 - a. for B009, 1.3 pounds per million Btu of heat input or 13.0 pounds per hour and 30.89 TPY;
 - b. for B002, 4.53 lbs/mmBtu of heat input or 25.19 lbs./hr. and 64.38 TPY; and,
 - c. for B005, 4.53 lbs/mmBtu of heat input or 25.37 lbs./hr. and 4.57 TPY.

B. Additional Terms and Conditions

Particulate/Visible Emission Restrictions

1. These emissions units shall comply with OAC Rule 3745-17-07(A), which limits visible particulate emissions as follows:
 - a. except as provided below, visible particulate emissions from any stack shall not exceed an opacity of twenty (20) percent as a six-minute average; and,
 - b. visible particulate emissions from any stack may exceed twenty (20) percent as a six-minute average for not more than six (6) consecutive minutes in any sixty-minute period, but shall not exceed sixty (60) percent opacity at any time.
2. The visible particulate emission limitations specified above shall not apply to the following operations for emissions units B002 and B005, provided the operations are documented daily in a boiler operations log kept at the facility:
 - a. the start-up of the source for a period of time required to achieve stable combustion conditions, but no more than three (3) hours from the moment of start-up. "Start-up" means the commencement of firing of fuel from a cold non-fired condition;

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- b. the shutdown of the source for a period of not more than three (3) hours;
- c. the malfunction of the source or associated equipment, if the owner of the source or operator of the equipment complies with the requirements of OAC Rule 3745-15-06;
- d. intermittent soot-blowing operations (the cleaning of heat transfer surfaces with pressurized air or steam);
- e. intermittent ash removal operations (the dumping or pulling of ash); and,
- f. the commencement of increased coal firing from a banked condition for a period not to exceed thirty (30) minutes. "Banked condition" means the condition where the fuel is burned on the grates at rates which are sufficient to maintain ignition only.

This boiler operations log shall clearly document the date, beginning time, and ending time of the exempted operations listed above.

Federally Enforceable Emissions Requirements for Sulfur Dioxide

The total annual emissions of SO₂ from all emissions units at this facility shall be limited to 99.86 tons. Since two minor sources at this facility (two gas fired boilers, sources B001 and B007 with maximum heat input rates of 5.3 and 5.0 mmBtu per hour, respectively) have combined maximum annual potential SO₂ emissions of 0.02 ton per year, the annual allowable emissions from these three coal-fired sources (B002, B005, and B009) shall not exceed 99.84 tons. This annual facility SO₂ emission limitation shall be achieved by restricting both the sulfur content in the coal supply burned in these emissions units and the maximum annual hours of operation for these emissions units in the following manner:

1. The quality of coal burned in these emissions units shall meet the following specifications on a dry basis:
 - a. a sulfur content no greater than 3.1 percent by weight;
 - b. a sulfur content which is sufficient to comply with a maximum allowable SO₂ emission limitation of 4.53 pounds of SO₂ per mmBtu actual heat input for B002 and B005;
 - c. less than 8.0 percent ash; and,
 - d. heat content greater than 13,000 Btu per pound of coal.

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Compliance with the above-mentioned specifications for sulfur, ash, and heat content shall be determined by using the analytical results provided by the coal supplier for each shipment of coal. The analytical methods for sulfur content, ash content, and heat content in coal shall be: ASTM Method D3177, Total Sulfur in the Analysis Sample of Coal and Coke or ASTM Method D4239, Sulfur in the Analysis Sample of Coal and Coke Using High Temperature Tube Furnace Combustion Methods; ASTM Method D3174, Ash in the Analysis Sample of Coal and Coke; ASTM Method D2015, Gross Calorific Value of Solid Fuel by the Adiabatic Bomb Calorimeter, ASTM Method D3286, Gross Calorific Value of Coal and Coke by the Isothermal Bomb Calorimeter, or ASTM Method D1989, Standard Test Method for Gross Calorific Value of Coal and Coke by Microprocessor Controlled Isooperibol Calorimeter, respectively.

2. The maximum annual hours of operation of the two coal-fired emissions units, B009 and B002, shall not exceed 5112 on a rolling 12 month basis.
3. The maximum annual hours of operation of emissions unit B005 shall not exceed 360 on a 12 month rolling basis. Further, emissions unit B005 shall only be utilized as a back-up emissions unit to B009 (i.e., shall only be operated when B009 is not operating/out of service).
4. The allowable annual operating hours of emissions unit B009 shall be diminished by the number of hours (up to 360) that B005 is operated.

C. Operational Restrictions

1. New Emissions Unit (B009)
 - a. The maximum heat input for this emissions unit shall not exceed 10.0 mmBtu/hr., the maximum heat rate capacity for this fluidized bed combustor.
 - b. The restrictions regarding the use of flyash reinjection and an overfire air system found in OAC Rule 3745-17-10(C)(7)(a) are not applicable to this bubbling fluidized bed coal combustion process. In lieu of these generic requirements, the following design specific emissions control systems shall be used at all times during the operation (coal firing) of this emissions unit:

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- i. this emissions unit shall maintain a minimum calcium (from injection of limestone or equivalent) to sulfur (contained in coal fuel) weight ratio of 2.5 in the fluid bed of the reactor at all times; and,

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- ii. the baghouse and filter shall be operated and maintained as recommended by the manufacturer to ensure the anticipated collection efficiency of the control device.

A daily log shall be maintained recording the operational status of this boiler, the baghouse, and the ratio of the weight of calcium to sulfur in the combustor.

2. Existing Emissions Units (B002 and B005)

- a. The maximum heat input to emissions unit B002 shall not exceed 5.56 mmBtu per hour, the maximum rated capacity of this boiler. The maximum heat input to emissions unit B005 shall not exceed 5.60 mmBtu/hr., the maximum rated capacity of this boiler.
- b. The steam injection system shall be used at all times during operation of these emissions units.
- c. The use of flyash reinjection in these emissions units is prohibited.
- d. These emissions units shall employ an overfire air system which is designed, maintained, and operated in accordance with good engineering practices and which minimizes visible emissions.

- 3. During the first twelve (12) months of operation under this permit, these emissions units shall not exceed the cumulative total hours of operation as specified for each month in the following table:

	10
Calendar Month(s)	11
<u>(After Permit Issuance)</u>	12

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9

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<u>Cumulative Allowable Total</u>	<u>Hours</u>
<u>of Operation</u>	
<u>B009 and B002</u>	<u>B005</u>

744	360
1,464	360
2,208	360
2,952	360
3,624	360
4,368	360
5,088	360
5,112	360
5,112	360
5,112	360
5,112	360
5,112	360

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D. Monitoring and/or Recordkeeping Requirements

1. The permittee shall maintain the following records for these emissions units, in addition to those operations logs referred to above:
 - a. daily records of the total hours of normal or full firing as well as hours during which either of these emissions units is in a banked condition plus a daily estimate of the tons of coal burned. These records shall be signed daily by the permittee attesting to the accuracy of the data;
 - b. daily record of the weight of limestone injected into emissions unit B009 and a calculation of the average Ca/S ratio for the days operation; and,
 - c. monthly records of the total hours of both full and banked firing, the total monthly coal burned (estimated), and the total monthly tonnage of coal received.

2. For each shipment of coal, the quantity of coal received and the results of the coal supplier's analyses on both an as-received and dry basis. Data recorded shall include:
 - a. the total quantity of coal received (tons),
 - b. the sulfur content (percent) of the coal,
 - c. the ash content (percent) of the coal,
 - d. the heat content (Btu per pound) of the coal, and,
 - e. the SO₂ emission rate (pounds SO₂ per mmBtu actual heat input) for the coal.

Compliance with the applicable SO₂ emission limit, as well as the sulfur, ash and Btu limitations, shall be determined based on the weighted arithmetic average of all fuel analyses for each calendar month.

[NOTE: A weighted average fuel quality value is determined by multiplying each fuel analysis value (Btu/pound, percent ash, or SO₂ emission rate) by the weight of the shipment of fuel for which

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the quality value is representative, adding up all the value-weighted products, and dividing the sum of the value-weighted products by the sum of all the shipment weights.]

3. Monthly calculations of the weighted average SO₂ emission rate, ash content, and heat content for the coal received each calendar month and the tons of coal burned in these emissions units.

These records, as well as any other supporting analyses, computations, operations logs, and fuel receipts, shall be retained on site in facility files for a period of not less than five (5) years and shall be made available to the Director or any authorized representative of the Director for review during normal business hours.

E. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports that identify all periods during which the terms and conditions listed above were exceeded or the required records were not maintained. These reports shall include the following information:
 - a. the date of each exceedance;
 - b. the nature or type of each deviation (i.e., coal quality, cumulative hours of operation, boiler operating log not completed, etc.); and,
 - c. the corrective action taken to rectify the condition which caused the excursion.
2. The permittee shall submit required reports in the following manner:
 - a. except as otherwise may be provided in the terms and conditions for a specific emissions unit, quarterly written reports of (a) any deviations (excursions) from emission limitations, operational restrictions, and control device operating parameter limitations that have been detected by the testing, monitoring, and recordkeeping requirements specified in this permit, (b) the probable cause of such deviations, and (c) any corrective actions or preventive measures which have been or will be taken, shall be submitted to the Ohio EPA, Northeast District Office. 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

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deviations resulting from malfunctions reported in accordance with OAC rule 3745-15-06).

F. Testing Requirements

1. Emissions Limitation

Sulfur dioxide emissions from each emissions unit shall not exceed:

- a. (B009) 1.3 lbs/mmBtu of actual heat input or 13.0 lbs/hr and 33.23 TPY;
- b. (B002) 4.53 lbs/mmBtu of actual heat input or 25.19 lbs/hr and 64.38 TPY; and,
- c. (B005) 4.53 lbs/mmBtu of actual heat input or 25.37 lbs/hr and 4.57 TPY.

Applicable Compliance Method

Compliance shall be based upon data from the required fuel quality and operation hours records and the formula referenced in OAC 3745-18-04(F)(1). If required pursuant to OAC 3745-15-04, the permittee shall demonstrate compliance with the sulfur dioxide emissions limits of this permit by means of physical testing of the effluent from this emissions unit in accordance with testing procedures listed in 40 CFR Part 60, "Standards of Performance for New Stationary Sources", Appendix A, Method 6 or 6C.

2. Emission Limitation

The total annual allowable SO₂ emissions from the three coal-fired emissions units (B002, B005, and B009) at this facility shall not exceed 99.84 tons.

Applicable Compliance Method

Compliance shall be based on engineering calculations and a compilation of emissions units operations and fuel quality data recorded and reported pursuant to the above terms and conditions.

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3. Emissions Limitation

0.60 pound particulate matter per million Btu of actual heat input.

Applicable Compliance Method

Compliance shall be based upon the use of an emission factor as specified in AP-42, 5th Edition, Compilation of Air Pollution Emission Factors, section 1.1, table 1.1-3, and a compilation of fuel usage and operations data required to be recorded in the above terms and conditions. If required pursuant to OAC 3745-15-04, the permittee shall demonstrate compliance with the particulate emissions limits of this permit by means of physical testing of the effluent from these emissions units in accordance with testing procedures listed in 40 CFR Part 60, "Standards of Performance for New Stationary Sources", Appendix A, Method 5, and in OAC 3745-17-03(B)(7).

4. Emissions Limitation

Visible particulate emissions from the exhaust stack serving each emissions unit shall not exceed twenty (20) percent opacity, as a six-minute average, except as provided by rule.

Applicable Compliance Method

Compliance shall be determined through visible emission observations in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03(B)(1).

5. Emissions Limitation

Nitrogen oxides emissions from each emissions unit shall not exceed:

- a. (B009) 5.84 lbs/hr and 14.93 TPY;
- b. (B002) 2.03 lbs/hr and 5.19 TPY; and,
- c. (B005) 2.05 lbs/hr and 0.37 TPY.

Applicable Compliance Method

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Compliance shall be based upon the use of an emission factor as specified in AP-42, 5th Edition, Compilation of Air Pollution Emission Factors, section 1.1, table 1.1-1, and a compilation of fuel usage and operations data required to be recorded in the above terms and conditions. If required pursuant to OAC 3745-15-04, the permittee shall demonstrate compliance with the NO_x emissions limits of this permit by means of physical testing of the effluent from these emissions units in accordance with testing procedures listed in 40 CFR Part 60, "Standards of Performance for New Stationary Sources", Appendix A, Method 7 or 7E.

6. Emissions Limitations

Carbon monoxide emissions from each emissions unit shall not exceed:

- a. (B009) 6.90 lbs/hr and 17.64 TPY;
- b. (B002) 2.35 lbs/hr and 6.01 TPY; and,
- c. (B005) 2.37 lbs/hr and 0.43 TPY.

Applicable Compliance Method

Compliance shall be based upon the use of an emission factor as specified in AP-42, 5th Edition, Compilation of Air Pollution Emission Factors, section 1.1, table 1.1-1, and a compilation of fuel usage and operations data required to be recorded and reported in the above terms and conditions. If required pursuant to OAC 3745-15-04, the permittee shall demonstrate compliance with the CO emissions limits of this permit by means of physical testing of the effluent from this emissions unit in accordance with testing procedures listed in 40 CFR Part 60, "Standards of Performance for New Stationary Sources", Appendix A, Method 10.

G. Miscellaneous Requirements

1. Emissions Testing Requirement (B009)

Prior to the issuance of a Permit to Operate for emissions unit B009, and within ninety days of the initial startup of this fluidized bed combustion unit, the permittee shall conduct, or have conducted, performance/emissions testing of this source in accordance with procedures approved by the Ohio EPA. Two copies of the written test report shall be submitted to the Agency within thirty days of the completion of these tests. This test report shall be signed by the person responsible for the test and shall describe the test procedures followed and the results of such tests. The Director, or an Ohio EPA

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representative, shall be allowed to witness the tests, examine the testing equipment, and require the acquisition or submission of data and information necessary to assure that source operation and testing procedures provide a valid characterization of the emissions from the source and/or the performance of the control equipment.

- a. a completed Intent to Test form shall be submitted to the Ohio EPA, Northeast District Office, where the original PTI application was filed at least thirty (30) days in advance of the scheduled test and shall specify the operation parameters, the proposed test procedures, the pollutants to be tested for, and the time, date, place, and person(s) conducting such tests;
- b. two copies of the test results shall be submitted to the Ohio EPA, Northeast District Office, within thirty (30) days after completion of the performance test; and,
- c. the performance/emissions tests conducted on this source shall specifically be performed for both particulate and sulfur dioxide emissions rates.