



Environmental
Protection Agency

Ted Strickland, Governor
Lee Fisher, Lt. Governor
Chris Korleski, Director

11/2/2010

Mr. Bruce Bailey
Buckeye Biogas, LLC
7624 Riverview Road
Cleveland, OH 44141

RE: FINAL AIR POLLUTION PERMIT-TO-INSTALL AND OPERATE

Facility ID: 0285032003
Permit Number: P0107071
Permit Type: Initial Installation
County: Wayne

Certified Mail

Yes	TOXIC REVIEW
No	PSD
No	SYNTHETIC MINOR TO AVOID MAJOR NSR
No	CEMS
No	MACT/GACT
Yes	NSPS
No	NESHAPS
No	NETTING
No	MAJOR NON-ATTAINMENT
No	MODELING SUBMITTED
No	SYNTHETIC MINOR TO AVOID TITLE V
No	FEDERALLY ENFORCABLE PTIO (FEPTIO)

Dear Permit Holder:

Enclosed please find a final Air Pollution Permit-to-Install and Operate (PTIO) which will allow you to install, modify, and/or operate the described emissions unit(s) in the manner indicated in the permit. Because this permit contains conditions and restrictions, please read it very carefully. Please complete a survey at www.epa.ohio.gov/dapc/permitsurvey.aspx and give us feedback on your permitting experience. We value your opinion.

The issuance of this PTI is a final action of the Director and may be appealed to the Environmental Review Appeals Commission pursuant to Section 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. The appeal must be filed with the Commission within thirty (30) days after notice of the Director's action. The appeal must be accompanied by a filing fee of \$70.00, made payable to "Ohio Treasurer Kevin Boyce," which the Commission, in its discretion, may reduce if by affidavit you demonstrate that payment of the full amount of the fee would cause extreme hardship. Notice of the filing of the appeal shall be filed with the Director within three (3) days of filing with the Commission. Ohio EPA requests that a copy of the appeal be served upon the Ohio Attorney General's Office, Environmental Enforcement Section. An appeal may be filed with the Environmental Review Appeals Commission at the following address:

Environmental Review Appeals Commission
309 South Fourth Street, Room 222
Columbus, OH 43215

If you have any questions, please contact Ohio EPA DAPC, Northeast District Office at (330)425-9171 or the Office of Compliance Assistance and Pollution Prevention at (614) 644-3469. This permit can be accessed electronically on the DAPC Web page, www.epa.ohio.gov/dapc, by clicking the "Issued Air Pollution Control Permits" link.

Sincerely,

Michael W. Ahern, Manager
Permit Issuance and Data Management Section, DAPC

Cc: Ohio EPA-NEDO



FINAL

**Division of Air Pollution Control
Permit-to-Install and Operate
for
Buckeye Biogas, LLC**

Facility ID: 0285032003
Permit Number: P0107071
Permit Type: Initial Installation
Issued: 11/2/2010
Effective: 11/2/2010
Expiration: 11/2/2020



Division of Air Pollution Control
Permit-to-Install and Operate
for
Buckeye Biogas, LLC

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Authorization

Facility ID: 0285032003
Application Number(s): A0040538, A0040570
Permit Number: P0107071
Permit Description: Installation PTIO for biogas digestion facility
Permit Type: Initial Installation
Permit Fee: \$825.00
Issue Date: 11/2/2010
Effective Date: 11/2/2010
Expiration Date: 11/2/2020
Permit Evaluation Report (PER) Annual Date: Jan 1 - Dec 31, Due Feb 15

This document constitutes issuance to:

Buckeye Biogas, LLC
2072 Secrest Road
Wooster, OH 44691

of a Permit-to-Install and Operate for the emissions unit(s) identified on the following page.

Ohio EPA District Office or local air agency responsible for processing and administering your permit:

Ohio EPA DAPC, Northeast District Office
2110 East Aurora Road
Twinsburg, OH 43087
(330)425-9171

The above named entity is hereby granted this Permit-to-Install and Operate for the air contaminant source(s) (emissions unit(s)) listed in this section 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 described emissions unit(s) will operate in compliance with applicable State and federal laws and regulations.

This permit is granted subject to the conditions attached hereto.

Ohio Environmental Protection Agency


Chris Korleski
Director



Authorization (continued)

Permit Number: P0107071
Permit Description: Installation PTIO for biogas digestion facility

Permits for the following Emissions Unit(s) or groups of Emissions Units are in this document as indicated below:

Emissions Unit ID: B003
Company Equipment ID: CPHU #1
Superseded Permit Number:
General Permit Category and Type: Not Applicable

Emissions Unit ID: F001
Company Equipment ID: Roadways and Parking
Superseded Permit Number:
General Permit Category and Type: Not Applicable

Emissions Unit ID: P001
Company Equipment ID: CHPU Unit 1
Superseded Permit Number:
General Permit Category and Type: Not Applicable

Group Name: Boilers

Emissions Unit ID:	B001
Company Equipment ID:	Boiler unit 1
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	B002
Company Equipment ID:	Boilers unit 2
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable

A. Standard Terms and Conditions

1. What does this permit-to-install and operate ("PTIO") allow me to do?

This permit allows you to install and operate the emissions unit(s) identified in this PTIO. You must install and operate the unit(s) in accordance with the application you submitted and all the terms and conditions contained in this PTIO, including emission limits and those terms that ensure compliance with the emission limits (for example, operating, recordkeeping and monitoring requirements).

2. Who is responsible for complying with this permit?

The person identified on the "Authorization" page, above, is responsible for complying with this permit until the permit is revoked, terminated, or transferred. "Person" means a person, firm, corporation, association, or partnership. The words "you," "your," or "permittee" refer to the "person" identified on the "Authorization" page above.

The permit applies only to the emissions unit(s) identified in the permit. If you install or modify any other equipment that requires an air permit, you must apply for an additional PTIO(s) for these sources.

3. What records must I keep under this permit?

You must keep all records required by this permit, including monitoring data, test results, strip-chart recordings, calibration data, maintenance records, and any other record required by this permit for five years from the date the record was created. You can keep these records electronically, provided they can be made available to Ohio EPA during an inspection at the facility. Failure to make requested records available to Ohio EPA upon request is a violation of this permit requirement.

4. What are my permit fees and when do I pay them?

There are two fees associated with permitted air contaminant sources in Ohio:

- PTIO fee. This one-time fee is based on a fee schedule in accordance with Ohio Revised Code (ORC) section 3745.11, or based on a time and materials charge for permit application review and permit processing if required by the Director.

You will be sent an invoice for this fee after you receive this PTIO and payment is due within 30 days of the invoice date. You are required to pay the fee for this PTIO even if you do not install or modify your operations as authorized by this permit.

- Annual emissions fee. Ohio EPA will assess a separate fee based on the total annual emissions from your facility. You self-report your emissions in accordance with Ohio Administrative Code (OAC) Chapter 3745-78. This fee assessed is based on a fee schedule in ORC section 3745.11 and funds Ohio EPA's permit compliance oversight activities. Unless otherwise specified, facilities subject to one or more synthetic minor restrictions must use Ohio EPA's "Air Services" to submit annual emissions associated with this permit requirement. Ohio EPA will notify you when it is time to report your emissions and to pay your annual emission fees.

5. When does my PTIO expire, and when do I need to submit my renewal application?

This permit expires on the date identified at the beginning of this permit document (see "Authorization" page above) and you must submit a renewal application to renew the permit. Ohio EPA will send a renewal notice to you approximately six months prior to the expiration date of this permit. However, it is very important that you submit a complete renewal permit application (postmarked prior to expiration of this permit) even if you do not receive the renewal notice.

If a complete renewal application is submitted before the expiration date, Ohio EPA considers this a timely application for purposes of ORC section 119.06, and you are authorized to continue operating the emissions unit(s) covered by this permit beyond the expiration date of this permit until final action is taken by Ohio EPA on the renewal application.

6. What happens to this permit if my project is delayed or I do not install or modify my source?

This PTIO expires 18 months after the issue date identified on the "Authorization" page above unless otherwise specified if you have not (1) started constructing the new or modified emission sources identified in this permit, or (2) entered into a binding contract to undertake such construction. This deadline can be extended by up to 12 months, provided you apply to Ohio EPA for this extension within a reasonable time before the 18-month period has ended and you can show good cause for any such extension.

7. What reports must I submit under this permit?

An annual permit evaluation report (PER) is required in addition to any malfunction reporting required by OAC rule 3745-15-06 or other specific rule-based reporting requirement identified in this permit. Your PER due date is identified in the Authorization section of this permit.

8. If I am required to obtain a Title V operating permit in the future, what happens to the operating provisions and PER obligations under this permit?

If you are required to obtain a Title V permit under OAC Chapter 3745-77 in the future, the permit-to-operate portion of this permit will be superseded by the issued Title V permit. From the effective date of the Title V permit forward, this PTIO will effectively become a PTI (permit-to-install) in accordance with OAC rule 3745-31-02(B). The following terms and conditions will no longer be applicable after issuance of the Title V permit: Section B, Term 1.b) and Section C, for each emissions unit, Term a)(2).

The PER requirements in this permit remain effective until the date the Title V permit is issued and is effective, and cease to apply after the effective date of the Title V permit. The final PER obligation will cover operations up to the effective date of the Title V permit and must be submitted on or before the submission deadline identified in this permit on the last day prior to the effective date of the Title V permit.

9. What are my obligations when I perform scheduled maintenance on air pollution control equipment?

You must perform scheduled maintenance of air pollution control equipment in accordance with OAC rule 3745-15-06(A). If scheduled maintenance requires shutting down or bypassing any air pollution control equipment, you must also shut down the emissions unit(s) served by the air pollution control equipment during maintenance, unless the conditions of OAC rule 3745-15-06(A)(3) are met. Any emissions that exceed permitted amount(s) under this permit (unless specifically exempted by rule) must be reported as deviations in the annual permit evaluation report (PER), including nonexempt excess emissions that occur during approved scheduled maintenance.

10. Do I have to report malfunctions of emissions units or air pollution control equipment? If so, how must I report?

If you have a reportable malfunction of any emissions unit(s) or any associated air pollution control system, you must report this to the Ohio EPA DAPC, Northeast District Office in accordance with OAC rule 3745-15-06(B). Malfunctions that must be reported are those that result in emissions that exceed

permitted emission levels. It is your responsibility to evaluate control equipment breakdowns and operational upsets to determine if a reportable malfunction has occurred.

If you have a malfunction, but determine that it is not a reportable malfunction under OAC rule 3745-15-06(B), it is recommended that you maintain records associated with control equipment breakdown or process upsets. Although it is not a requirement of this permit, Ohio EPA recommends that you maintain records for non-reportable malfunctions.

11. Can Ohio EPA or my local air agency inspect the facility where the emission unit(s) is/are located?

Yes. Under Ohio law, the Director or his authorized representative may inspect the facility, conduct tests, examine records or reports to determine compliance with air pollution laws and regulations and the terms and conditions of this permit. You must provide, within a reasonable time, any information Ohio EPA requests either verbally or in writing.

12. What happens if one or more emissions units operated under this permit is/are shut down permanently?

Ohio EPA can terminate the permit terms associated with any permanently shut down emissions unit. "Shut down" means the emissions unit has been physically removed from service or has been altered in such a way that it can no longer operate without a subsequent "modification" or "installation" as defined in OAC Chapter 3745-31.

You should notify Ohio EPA of any emissions unit that is permanently shut down by submitting¹ a certification that identifies the date on which the emissions unit was permanently shut down. The certification must be submitted by an authorized official from the facility. You cannot continue to operate an emissions unit once the certification has been submitted to Ohio EPA by the authorized official.

You must comply with all recordkeeping and reporting for any permanently shut down emissions unit in accordance with the provisions of the permit, regulations or laws that were enforceable during the period of operation, such as the requirement to submit a PER, air fee emission report, or malfunction report. You must also keep all records relating to any permanently shutdown emissions unit, generated while the emissions unit was in operation, for at least five years from the date the record was generated.

Again, you cannot resume operation of any emissions unit certified by the authorized official as being permanently shut down without first applying for and obtaining a permit pursuant to OAC Chapter 3745-31.

13. Can I transfer this permit to a new owner or operator?

You can transfer this permit to a new owner or operator. If you transfer the permit, you must follow the procedures in OAC Chapter 3745-31, including notifying Ohio EPA or the local air agency of the change in ownership or operator. Any transferee of this permit must assume the responsibilities of the transferor permit holder.

14. Does compliance with this permit constitute compliance with OAC rule 3745-15-07, "air pollution nuisance"?

This permit and OAC rule 3745-15-07 prohibit operation of the air contaminant source(s) regulated

¹ Permittees that use Ohio EPA's "Air Services" can mark the affected emissions unit(s) as "permanently shutdown" in the facility profile along with the date the emissions unit(s) was permanently removed and/or disabled. Submitting the facility profile update will constitute notifying of the permanent shutdown of the affected emissions unit(s).

under this permit in a manner that causes a nuisance. Ohio EPA can require additional controls or modification of the requirements of this permit through enforcement orders or judicial enforcement action if, upon investigation, Ohio EPA determines existing operations are causing a nuisance.

15. What happens if a portion of this permit is determined to be invalid?

If a portion of this permit is determined to be invalid, the remainder of the terms and conditions remain valid and enforceable. The exception is where the enforceability of terms and conditions are dependent on the term or condition that was declared invalid.

B. Facility-Wide Terms and Conditions

Final Permit-to-Install and Operate

Buckeye Biogas, LLC

Permit Number: P0107071

Facility ID: 0285032003

Effective Date: 11/2/2010

1. This permit document constitutes a permit-to-install issued in accordance with ORC 3704.03(F) and a permit-to-operate issued in accordance with ORC 3704.03(G).
 - a) For the purpose of a permit-to-install document, the facility-wide terms and conditions identified below are federally enforceable with the exception of those listed below which are enforceable under state law only.
 - (1) None.
 - b) For the purpose of a permit-to-operate document, the facility-wide terms and conditions identified below are enforceable under state law only with the exception of those listed below which are federally enforceable.
 - (1) None.

C. Emissions Unit Terms and Conditions

1. B003, CPHU #1

Operations, Property and/or Equipment Description:

Combiner power and heat unit #1 –939 bHP spark ignition engine (6.33 mm BTU/hour)

- a) This permit document constitutes a permit-to-install issued in accordance with ORC 3704.03(F) and a permit-to-operate issued in accordance with ORC 3704.03(G).
 - (1) For the purpose of a permit-to-install document, the emissions unit terms and conditions identified below are federally enforceable with the exception of those listed below which are enforceable under state law only.
 - a. None.
 - (2) For the purpose of a permit-to-operate document, the emissions unit terms and conditions identified below are enforceable under state law only with the exception of those listed below which are federally enforceable.
 - a. None.
- b) Applicable Emissions Limitations and/or Control Requirements
 - (1) The specific operation(s), property, and/or equipment that constitute each emissions unit along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures are identified below. Emissions from each unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-31-05(A)(3), as effective 11/30/2001	Emissions of nitrogen oxides (NO _x) shall not exceed 1.0 gram/hp-hr and 9.05 tons per year. Emissions of carbon monoxide (CO) shall not exceed 2.2 grams/hp-hr and 19.91 tons per year. Emissions of volatile organic compounds (VOC) shall not exceed 1.0 gram/hp-hr and 9.05 tons per year. Emissions of sulfur dioxide (SO _x) shall not exceed 0.58 lb/hour and 2.54 tons per year. See b)(2)a and c)(1).
b.	OAC rule 3745-31-05(A)(3), as effective 12/01/2006	Emissions of carbon monoxide (CO) shall not exceed 2.2 grams/hp-hr and 19.91 tons per year.

Final Permit-to-Install and Operate

Buckeye Biogas, LLC

Permit Number: P0107071**Facility ID:** 0285032003**Effective Date:** 11/2/2010

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
		See b)(2)b and c)(1).
c.	OAC Rule 3745-17-11(B)(5)(b)	Particulate emissions shall not exceed 0.062 pound per million Btu actual heat input.
d..	OAC Rule 3745-17-07(A)	Visible particulate emissions shall not exceed 20% opacity as a six-minute average, except as provided by rule.
e.	OAC rule 3745-18-06	This emissions unit is exempt from the requirements of OAC rule 3745-18-06 via OAC rule 3745-18-06(B).
f.	40 CFR Part 60, subpart JJJJ [In accordance with 40 CFR 60.4230(a)(4)(i), this is a stationary spark ignition engine (SI) internal combustion engine (ICE) with a maximum engine power greater than or equal to 500 HP.] Applicable limitations are specified in Table 1 to 40 CFR Part 60, subpart JJJJ. See 40 CFR 60.4233(e) via 60.4233(f)(5).	Emissions of nitrogen oxides (NO _x) shall not exceed 3.0 grams/hp-hr. Emissions of carbon monoxide (CO) shall not exceed 5.0 grams/hp-hr. Emissions of volatile organic compounds (VOC) shall not exceed 1.0 gram/hp-hr. See b)(2)c and b)(2)d.
g.	40 CFR Part 60.1-19	Table 3 to subpart JJJJ of 40 CFR part 60 – Applicability of General Provisions to subpart JJJJ shows which parts of the General Provisions apply.

(2) Additional Terms and Conditions

- a. The permittee has satisfied the Best Available Technology (BAT) requirements pursuant to OAC paragraph 3745-31-05(A)(3), as effective November 30, 2001, in this permit. On December 1, 2006, paragraph (A)(3) of OAC rule 3745-31-05 was revised to conform to ORC changes effective August 3, 2006 (S.B. 265 changes), such that BAT is no longer required by State regulations for NAAQS pollutant less than ten tons per year. However, that rule revision has not yet been approved by US EPA as a revision to Ohio's State Implementation Plan (SIP). Therefore, until the SIP revision occurs and the US EPA approves the revisions to OAC rule 3745-31-05(A)(3), the requirement to satisfy BAT still exists as part of the federally-approved SIP for Ohio. Once US EPA approves the December 1, 2006 version of 3745-31-05, then the emission limits/control measures for VOC, NO_x and SO_x specified in b)(1)a no longer apply.
- b. The rule paragraph applies once US EPA approves the December 1, 2006 version of OAC rule 3745-31-05 as part of the State Implementation Plan.

Final Permit-to-Install and Operate

Buckeye Biogas, LLC

Permit Number: P0107071

Facility ID: 0285032003

Effective Date: 11/2/2010

The Best Available Technology (BAT) requirements under OAC rule 3745-31-05(A)(3) do not apply to the emissions of VOC, NO_x and SO_x specified in b)(1)a from this air contaminant source since the uncontrolled potential to emit for emissions of VOC, NO_x and SO_x specified in b)(1)a is less than 10 tons per year.

- c. The spark ignition (SI) internal combustion engine (ICE) is subject to and shall be operated in compliance with the requirements of 40 CFR Part 60, Subpart JJJJ, the standards of performance for stationary spark ignition, internal combustion engines. The engine shall be certified by the manufacturer to meet the applicable limits of 40 CFR 60.4231.
- d. The permittee shall comply with the applicable requirements in 40 CFR Part 60, Subpart JJJJ, including the following sections.

60.4233(e)	Emission Standards
60.4243(b)	Demonstrate Compliance

c) Operational Restrictions

- (1) The permittee shall only burn biogas and/or natural gas in this emissions unit.

d) Monitoring and/or Recordkeeping Requirements

- (1) For each day during which the permittee burns a fuel other than biogas or natural gas, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.
- (2) The permittee shall maintain monthly records of the natural gas and biogas fuel usage in this unit in millions of standard cubic feet.
- (3) The permittee shall perform weekly checks, when the emissions unit is in operation firing biogas 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 emissions incident; and
 - e. any corrective actions taken to minimize or eliminate the visible emissions.

If visible emissions are present, a visible emissions incident has occurred. The observer does not have to document the exact start and end times for the visible emissions

Final Permit-to-Install and Operate

Buckeye Biogas, LLC

Permit Number: P0107071

Facility ID: 0285032003

Effective Date: 11/2/2010

incident under item (d) above or continue the daily check until the incident has ended. The observer may indicate that the visible emissions incident was continuous during the observation period (or, if known, continuous during the operation of the emissions unit). With respect to the documentation of corrective actions, the observer may indicate that no corrective actions were taken if the visible emissions were representative of normal operations, or specify the minor corrective actions that were taken to ensure that the emissions unit continued to operate under normal conditions, or specify the corrective actions that were taken to eliminate abnormal visible emissions.

The permittee may, upon receipt of written approval from Ohio EPA Northeast District Office, modify the above-mentioned frequencies for performing the visible emissions checks if operating experience indicates that less frequent visible emissions checks would be sufficient to ensure compliance with the above-mentioned applicable requirements.

- (4) The permittee shall comply with the applicable monitoring and record keeping requirements in 40 CFR Part 60, Subpart JJJJ, including the following sections.

60.4245(a)	Record keeping requirements
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- (5) Modeling to demonstrate compliance with, the "Toxic Air Contaminant Statute", ORC 3704.03(F)(4)(b), was not necessary because the emissions unit's maximum annual emissions for each toxic air contaminant, as defined in OAC rule 3745-114-01, will be less than 1.0 ton per year. OAC Chapter 3745-31 requires permittees to apply for and obtain a new or modified PTIO prior to making a "modification" as defined by OAC rule 3745-31-01. The permittee is hereby advised that changes in the composition of the materials, or use of new materials, that would cause the emissions of any toxic air contaminant to increase to above 1.0 ton per year may require the permittee to apply for and obtain a new PTIO.

e) Reporting Requirements

- (1) Annual Permit Evaluation Report (PER) forms will be mailed to the permittee at the end of the reporting period specified in the Authorization section of this permit. The permittee shall submit the PER in the form and manner provided by the director by the due date identified in the Authorization section of this permit. The permit evaluation report shall cover a reporting period of no more than twelve-months for each air contaminant source identified in this permit.
- (2) The permittee shall submit reports and such other notifications to the Ohio EPA as are required pursuant to 40 CFR Part 60, Subpart JJJJ, including the following sections.

60.4245(a)	Reporting Requirements
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These reports and other notifications shall be submitted to the following addresses:

Ohio Environmental Protection Agency

DAPC-Permit Management Unit
Lazarus Government Center
PO Box 1049
Columbus, OH 43216-1049

and

Ohio EPA, Northeast District Office
2110 East Aurora Road
Twinsburg, OH 44087

f) Testing Requirements

(1) Compliance with the emission limitations and operational restrictions specified in sections b) and c) shall be determined as follows:

a. Emission Limitations: Visible particulate emissions shall not exceed 20% opacity as a six-minute average, except as provided by rule.

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

b. Operational Restriction: The permittee shall only burn biogas and/or natural gas in this emissions unit.

Applicable Compliance Method: Compliance shall be determined by the record keeping specified in d)(1).

c. Emission Limitation: Particulate emissions shall not exceed 0.062 pound per million BTU actual heat input.

Applicable Compliance Method: If required, particulate emissions shall be determined according to test Methods 1 – 5, as set forth in the “Appendix on Test Methods” in 40 CFR, Part 60 “Standards of Performance for New Stationary Sources”, and the procedures specified in OAC rule 3745-17-03(B)(9). Alternative US EPA-approved test methods may be used with prior approval from Ohio EPA, Northeast District Office.

d. Emission Limitation: Emissions of NO_x shall not exceed 1.0 gram/hp-hr

Emissions of CO shall not exceed 2.2 grams/hp-hr

Emissions of VOC shall not exceed 1.0 gram/hp-hr

Emissions of NO_x shall not exceed 3.0 grams/hp-hr.

Emissions of CO shall not exceed 5.0 grams/hp-hr.

Applicable Compliance Method: The permittee has purchased an engine certified according to procedures specified in 40 CFR Part 60, Subpart JJJJ for

the same model year and demonstrating compliance according to one of the methods specified in 40 CFR 60.4243(a)(1) or 40 CFR Part 60.4243(a)(2).

- e. Emission Limitation: Emissions of NO_x shall not exceed 9.05 tons per year.

Emissions of CO shall not exceed 19.91 tons per year.

Emissions of VOC shall not exceed 9.05 tons per year.

Applicable Compliance Method: Compliance with the annual limitation shall be assumed as long as compliance with the hourly limitations is maintained. Each annual limitation was calculated using the following formula:

Annual tons per year emissions for CO, VOC or NO_x =

$(g/bhp-hr) \times (0.0022 \text{ lb/g}) \times (\text{bhp of engine}) \times (8760 \text{ hours/year}) \times (1 \text{ ton}/2000 \text{ lbs})$

- f. Emission Limitation: Emissions of SO_x shall not exceed 0.58 lb/hour and 2.54 tons per year.

Applicable Compliance Method: Compliance with the hourly limitation was demonstrated by emissions testing of an identical unit at Peru, Indiana. Compliance with the annual limitation shall be assumed as long as compliance with the hourly limitation is maintained. The annual limitation was calculated using the following formula.

$0.58 \text{ lb/hour} \times 8760 \text{ hours/year} \times 1\text{ton}/2000 \text{ lbs} = 2.54 \text{ tons per year}$

- g) Miscellaneous Requirements

(1) None.

2. F001, Roadways and Parking

Operations, Property and/or Equipment Description:

Plant Roadways and Parking Area

- a) This permit document constitutes a permit-to-install issued in accordance with ORC 3704.03(F) and a permit-to-operate issued in accordance with ORC 3704.03(G).
 - (1) For the purpose of a permit-to-install document, the emissions unit terms and conditions identified below are federally enforceable with the exception of those listed below which are enforceable under state law only.
 - a. None.
 - (2) For the purpose of a permit-to-operate document, the emissions unit terms and conditions identified below are enforceable under state law only with the exception of those listed below which are federally enforceable.
 - a. None.
- b) Applicable Emissions Limitations and/or Control Requirements
 - (1) The specific operation(s), property, and/or equipment that constitute each emissions unit along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures are identified below. Emissions from each unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
Paved roadways and parking areas		
a.	OAC rule 3745-31-05(A)(3), as effective 11/30/2001	<p>Emissions of particulate matter 10 microns or smaller (PM10) shall not exceed 6.6 tons/year.</p> <p>Emissions of of fugitive particulate emissions (PE) shall not exceed 33.8 tons/year.</p> <p>The permittee shall employ the best available control measures that are sufficient to minimize or eliminate visible PE of fugitive dust.</p> <p>See b)(2)a and b)(2)e through b)(2)i.</p>
b.	OAC rule 3745-31-05(A)(3), as effective 12/01/2006	Emissions of particulate matter 10 microns or smaller (PM10) shall not exceed 33.8 tons/year.

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	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
		The permittee shall employ the best available control measures that are sufficient to minimize or eliminate visible PE of fugitive dust. See b)(2)a and b)(2)e through b)(2)i.
c.	OAC rule 3745-17-07(B)(4)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
Unpaved roadways and parking areas		
d.	OAC rule 3745-31-05(A)(3), as effective 11/30/2001 Unpaved roadways	Emissions of particulate matter 10 microns or smaller (PM10) shall not exceed 7.4 tons/year. Emissions of of fugitive particulate emissions (PE) shall not exceed 25.2 tons/year. The permittee shall employ the best available control measures that are sufficient to minimize or eliminate visible PE of fugitive dust. See b)(2)a and b)(2)c through b)(2)j.
e.	OAC rule 3745-31-05(A)(3), as effective 12/01/2006	Emissions of of fugitive particulate emissions (PE) shall not exceed 25.2 tons/year of fugitive particulate emissions (PE) The permittee shall employ the best available control measures that are sufficient to minimize or eliminate visible PE of fugitive dust. See b)(2)a and b)(2)c through b)(2)j.
f.	OAC rule 3745-17-07(B)(5)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

(2) Additional Terms and Conditions

- a. The permittee has satisfied the Best Available Technology (BAT) requirements pursuant to OAC paragraph 3745-31-05(A)(3), as effective November 30, 2001, in this permit. On December 1, 2006, paragraph (A)(3) of OAC rule 3745-31-05

was revised to conform to ORC changes effective August 3, 2006 (S.B. 265 changes), such that BAT is no longer required by State regulations for NAAQS pollutant less than ten tons per year. However, that rule revision has not yet been approved by US EPA as a revision to Ohio's State Implementation Plan (SIP). Therefore, until the SIP revision occurs and the US EPA approves the revisions to OAC rule 3745-31-05(A)(3), the requirement to satisfy BAT still exists as part of the federally-approved SIP for Ohio. Once US EPA approves the December 1, 2006 version of 3745-31-05, then these emission limits/control measures no longer apply.

- b. The rule paragraph applies once US EPA approves the December 1, 2006 version of OAC rule 3745-31-05 as part of the State Implementation Plan.

The Best Available Technology (BAT) requirements under OAC rule 3745-31-05(A)(3) do not apply to the emissions of particulate matter from this air contaminant source since the uncontrolled potential to emit for emissions of PM10 is less than 10 tons per year.

- c. There shall be no visible emissions of fugitive dust from the paved roadways and/or parking areas except for a period of time not to exceed one minute during any 60-minute observation period.
- d. There shall be no visible emissions of fugitive dust from the unpaved roadways and/or parking areas except for a period of time not to exceed three minutes during any 60-minute observation period.
- e. The permittee shall employ best available control measures on all paved and unpaved roadways and parking areas for the purpose of ensuring compliance with the above-mentioned applicable requirements. In accordance with the permittee's application, the permittee has committed to treat the paved and unpaved roadways and parking areas by application of chemical stabilization/dust suppressants and/or watering at sufficient treatment frequencies to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.
- f. The needed frequencies of implementation of the control measures shall be determined by the permittee's inspections pursuant to the monitoring section of this permit. Implementation of the control measures shall not be necessary for paved roadways and parking areas that are covered with snow and/or ice or if precipitation has occurred that is sufficient for that day to ensure compliance with the above-mentioned applicable requirements. Implementation of any control measure may be suspended if unsafe or hazardous driving conditions would be created by its use.
- g. The permittee shall promptly remove, in such a manner as to minimize or prevent resuspension, earth and/or other material from paved streets onto which such material has been deposited by trucking or earth moving equipment or erosion by water or other means.

- h. Open-bodied vehicles transporting materials likely to become airborne shall have such materials covered at all times if the control measure is necessary for the materials being transported.
- i. Implementation of the above-mentioned control measures in accordance with the terms and conditions of this permit is appropriate and sufficient to satisfy the best available technology requirements of OAC rule 3745-31-05.
- j. Any unpaved roadway or parking area that is subsequently paved, will require a General Permit for paved roadways and parking areas.

c) Operational Restrictions

- (1) None.

d) Monitoring and/or Recordkeeping Requirements

- (1) Except as otherwise provided in this section, the permittee shall perform inspections of each of the roadway segments and parking areas in accordance with the following frequencies:

<u>paved roadways and parking areas</u>	<u>minimum inspection frequency</u>
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all roads and parking areas	daily
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<u>unpaved roadways and parking areas</u>	<u>minimum inspection frequency</u>
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all roads and parking areas	daily
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- (2) The purpose of the inspections is to determine the need for implementing the above-mentioned control measures. The inspections shall be performed during representative, normal traffic conditions. No inspection shall be necessary for a roadway or parking area that is covered with snow and/or ice or if precipitation has occurred that is sufficient for that day to ensure compliance with the above-mentioned applicable requirements. Any required inspection that is not performed due to any of the above-identified events shall be performed as soon as such event(s) has (have) ended, except if the next required inspection is within one week.

- (3) The permittee shall maintain records of the following information:

- a. the date and reason any required inspection was not performed, including those inspections that were not performed due to snow and/or ice cover or precipitation;
- b. the date of each inspection where it was determined by the permittee that it was necessary to implement the control measures;
- c. the dates the control measures were implemented; and
- d. on a calendar quarter basis, the total number of days the control measures were implemented and the total number of days where snow and/or ice cover or precipitation were sufficient to not require the control measures.

The information required in d)(3)d. shall be updated on a calendar quarter basis within 30 days after the end of each calendar quarter.

e) Reporting Requirements

- (1) Annual Permit Evaluation Report (PER) forms will be mailed to the permittee at the end of the reporting period specified in the Authorization section of this permit. The permittee shall submit the PER in the form and manner provided by the director by the due date identified in the Authorization section of this permit. The permit evaluation report shall cover a reporting period of no more than twelve-months for each air contaminant source identified in this permit.

f) Testing Requirements

- (1) Compliance with the emission limitations in b)(1) shall be determined in accordance with the following methods:

a. Emission Limitations for Paved Roadways and Parking Areas:

6.6 tons/year of fugitive PM10

33.8 tons/year of fugitive PE

Applicable Compliance Method:

Compliance with fugitive PE and PM10 limitations shall be determined by using the emission factor equations in Section 13.2.1, in Compilation of Air Pollutant Emission Factors, AP-42, Fifth Edition, Volume 1 (revised 12/03) for paved roadways. Should further updates in AP-42 occur, the most current equations for paved roads shall be used. These emission limits in the General Permit were based on a maximum of 40,000 vehicle miles traveled per year, and 95 % control efficiency for PE and PM10.

b. Emission Limitation:

No visible PE from paved roadways and parking areas except for a period of time not to exceed one minute during any 60-minute observation period.

Applicable Compliance Method:

If required, compliance with the visible PE limitation listed above shall be determined in accordance with Test Method 22 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources").

c. Emission Limitations for Unpaved Roadways and Parking Areas:

7.4 tons/year of fugitive PM10

25.2 tons/year of fugitive PE

Applicable Compliance Method:

Compliance with fugitive PE and PM10 limitations shall be determined by using the emission factor equations in Section 13.2.2, in Compilation of Air Pollutant Emission Factors, AP-42, Fifth Edition, Volume 1 (revised 12/03) for unpaved roadways. Should further updates in AP-42 occur, the most current equations for unpaved roads shall be used. These emission limits in the General Permit were based on a maximum of 120,000 vehicle miles traveled per year, and a 95 % control efficiency for PE and PM10.

d. Emission Limitation:

No visible PE from unpaved roadways and parking areas except for a period of time not to exceed 3 minutes during any 60-minute observation period.

Applicable Compliance Method:

If required, compliance with the visible PE limitation listed above shall be determined in accordance with Test Method 22 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources").

g) Miscellaneous Requirements

- (1) None.

3. P001, Digester

Operations, Property and/or Equipment Description:

Anaerobic digestion with process flare

- a) This permit document constitutes a permit-to-install issued in accordance with ORC 3704.03(F) and a permit-to-operate issued in accordance with ORC 3704.03(G).
 - (1) For the purpose of a permit-to-install document, the emissions unit terms and conditions identified below are federally enforceable with the exception of those listed below which are enforceable under state law only.
 - a. None.
 - (2) For the purpose of a permit-to-operate document, the emissions unit terms and conditions identified below are enforceable under state law only with the exception of those listed below which are federally enforceable.
 - a. None.
- b) Applicable Emissions Limitations and/or Control Requirements
 - (1) The specific operation(s), property, and/or equipment that constitute each emissions unit along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures are identified below. Emissions from each unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-31-05(A)(3), as effective 11/30/2001	Emissions of nitrogen oxides (NO _x) shall not exceed 0.06 lb/MM Btu and 2.3 tons per year Emissions of carbon monoxide (CO) shall not exceed 0.185 lb/MM Btu and 7.0 tons per year. Emissions of sulfur oxides (SO _x) shall not exceed 0.03 lb/MM Btu and 1.1 tons per year. See b)(2)a, b)(2)c and b)(2)f.
b.	OAC rule 3745-31-05(A)(3), as effective 12/01/2006	See b)(2)b, b)(2)c and b)(2)f.
c.	OAC rule 3745-17-11(B)	See b)(2)d.
d.	OAC rule 3745-17-07(A)	See b)(2)e.

(2) Additional Terms and Conditions

a. The permittee has satisfied the Best Available Technology (BAT) requirements pursuant to OAC paragraph 3745-31-05(A)(3), as effective November 30, 2001, in this permit. On December 1, 2006, paragraph (A)(3) of OAC rule 3745-31-05 was revised to conform to ORC changes effective August 3, 2006 (S.B. 265 changes), such that BAT is no longer required by State regulations for NAAQS pollutant less than ten tons per year. However, that rule revision has not yet been approved by US EPA as a revision to Ohio's State Implementation Plan (SIP). Therefore, until the SIP revision occurs and the US EPA approves the revisions to OAC rule 3745-31-05(A)(3), the requirement to satisfy BAT still exists as part of the federally-approved SIP for Ohio. Once US EPA approves the December 1, 2006 version of 3745-31-05, then these emission limits/control measures no longer apply.

b. The rule paragraph applies once US EPA approves the December 1, 2006 version of OAC rule 3745-31-05 as part of the State Implementation Plan.

The Best Available Technology (BAT) requirements under OAC rule 3745-31-05(A)(3) do not apply to the emissions of CO, NO_x and SO_x from this air contaminant source since the uncontrolled potential to emit for emissions of CO, NO_x and SO_x is less than 10 tons per year.

c. Upon request from the Ohio EPA Northeast District Office, the permittee shall take specific measures to address odors. These measures may include some or all of the following and may also include other measures:

- i. Daily cleaning of the processing building load-in and load-out areas to minimize the presence of residual feedstock;
- ii. Connecting the material receiving area, the load-out area, the material handling area(s) and/or the dewatering room to the biofilter;
- iii. The direction of air flow through all processing building openings during normal operations shall be into the building and vented at all times through a closed vent system exhausted through the biofilter;
- iv. Processing building openings during the load-in of feed stock and load-out of digestate shall be minimized;
- v. Processing building air shall be vented at all times during normal operation through a closed vent system exhausted through a biofilter;
- vi. Maintenance, repair or replacement of the biofilter;
- vii. Headspace from storage tanks, including liquid feedstock buffer tanks, pasteurization tanks and belt press filtrate holding tanks shall be vented through a closed-vent system exhausted through a biofilter; and
- viii. The permittee shall submit an operation and maintenance plan to the Ohio EPA, Northeast District Office upon the request. The plan will include such features as the Ohio EPA requests.

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- d. The uncontrolled mass rate of particulate emissions (PE) from this emissions unit is less than 10 lbs/hour. Pursuant to OAC rule 3745-17-11(A)(2)(a)(ii), Figure II of OAC rule 3745-17-11 does not apply. In addition, Table I of this rule does not apply as the process weight rate is equal to zero. "Process weight" is defined in OAC rule 3745-17-10(B)(17).
 - e. This emissions unit is exempt from any visible PE limitations via OAC rule 3745-17-07(A)(3)(h) because the emissions unit is not subject to the requirements of OAC rule 3745-17-11.
 - f. Emissions from the digestion process shall be vented to the flare during any instance which biogas is present in the feedstock equilibrium tank, primary digester or dual purpose tank and emissions unit B003 is not firing biogas.
- c) Operational Restrictions
- (1) A pilot flame shall be maintained at all times in the flare's pilot light burner.
- d) Monitoring and/or Recordkeeping Requirements
- (1) The permittee shall maintain daily records of all period of time during which there was no pilot flame or the flare was inoperable and biogas was present in the feedstock equilibrium tank, primary digester, or dual purpose tank and emissions unit B003 was not operating.
 - (2) Modeling to demonstrate compliance with, the "Toxic Air Contaminant Statute", ORC 3704.03(F)(4)(b), was not necessary because the emissions unit's maximum annual emissions for each toxic air contaminant, as defined in OAC rule 3745-114-01, will be less than 1.0 ton per year. OAC Chapter 3745-31 requires permittees to apply for and obtain a new or modified PTIO prior to making a "modification" as defined by OAC rule 3745-31-01. The permittee is hereby advised that changes in the composition of the materials, or use of new materials, that would cause the emissions of any toxic air contaminant to increase to above 1.0 ton per year may require the permittee to apply for and obtain a new PTIO.
- e) Reporting Requirements
- (1) Annual Permit Evaluation Report (PER) forms will be mailed to the permittee at the end of the reporting period specified in the Authorization section of this permit. The permittee shall submit the PER in the form and manner provided by the director by the due date identified in the Authorization section of this permit. The permit evaluation report shall cover a reporting period of no more than twelve-months for each air contaminant source identified in this permit.
- f) Testing Requirements
- (1) Compliance with the emission limitations and operational limitations specified in section b) shall be determined as follows:

Emission Limitation: Emissions of nitrogen oxides (NO_x) shall not exceed 0.06 lb/MM Btu and 2.30 tons per year

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Emissions of carbon monoxide (CO) shall not exceed 0.185 lb/MM Btu and 7.0 tons per year.

Emissions of sulfur oxides (SO_x) shall not exceed 0.03 lb/MM Btu and 1.1 tons per year.

- a. Applicable Compliance Method: Compliance with the short term (lb/MM Btu) limitation was certified by equipment supplier (Varec Biogas). Compliance with the annual limitation was calculated upon the following equations:

$$378,720 \text{ scf/d} \times 550 \text{ Btu/cf} \times 1/1,000,000 \times 1 \text{ day/24 hrs} = 8.68 \text{ MM Btu/hr}$$

$$8.7 \text{ MM Btu/hr} \times 0.06 \text{ lb/MM Btu} \times 8760 \text{ hrs/yr} \times 1 \text{ ton/2000 lbs} = 2.3 \text{ tpy NO}_x$$

$$8.7 \text{ MM Btu/hr} \times 0.185 \text{ lb/MM Btu} \times 8760 \text{ hrs/yr} \times 1 \text{ ton/2000 lbs} = 2.3 \text{ tpy CO}$$

$$8.7 \text{ MM Btu/hr} \times 0.03 \text{ lb/MM Btu} \times 8760 \text{ hrs/yr} \times 1 \text{ ton/2000 lbs} = 1.1 \text{ tpy SO}_x$$

g) Miscellaneous Requirements

- (1) None.

4. Emissions Unit Group - Boilers: B001, B002,

EU ID	Operations, Property and/or Equipment Description
B001	1.5 mmBtu/hr biogas-fired boiler with natural gas backup
B002	1.5 mmBtu/hr biogas-fired boiler with natural gas backup

a) This permit document constitutes a permit-to-install issued in accordance with ORC 3704.03(F) and a permit-to-operate issued in accordance with ORC 3704.03(G).

(1) For the purpose of a permit-to-install document, the emissions unit terms and conditions identified below are federally enforceable with the exception of those listed below which are enforceable under state law only.

a. None.

(2) For the purpose of a permit-to-operate document, the emissions unit terms and conditions identified below are enforceable under state law only with the exception of those listed below which are federally enforceable.

a. None.

b) Applicable Emissions Limitations and/or Control Requirements

(1) The specific operation(s), property, and/or equipment that constitute each emissions unit along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures are identified below. Emissions from each unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-31-05(A)(3), as effective 11/30/2001	Emissions of nitrogen oxides (NOx) shall not exceed 0.53 lb/hour and 2.32 tons per year. See b)(2)a and c)(1).
b.	OAC rule 3745-31-05(A)(3), as effective 12/01/2006	See b)(2)b and c)(1).
c.	OAC Rule 3745-17-10(B)	Particulate emissions shall not exceed 0.020 pound per million BTU actual heat input.
d..	OAC Rule 3745-17-07(A)	Visible particulate emissions shall not exceed 20% opacity as a six-minute average, except as provided by rule.
e.	OAC rule 3745-18-06	See b)(2)c.

(2) Additional Terms and Conditions

a. The permittee has satisfied the Best Available Technology (BAT) requirements pursuant to OAC paragraph 3745-31-05(A)(3), as effective November 30, 2001, in this permit. On December 1, 2006, paragraph (A)(3) of OAC rule 3745-31-05 was revised to conform to ORC changes effective August 3, 2006 (S.B. 265 changes), such that BAT is no longer required by State regulations for NAAQS pollutant less than ten tons per year. However, that rule revision has not yet been approved by US EPA as a revision to Ohio's State Implementation Plan (SIP). Therefore, until the SIP revision occurs and the US EPA approves the revisions to OAC rule 3745-31-05(A)(3), the requirement to satisfy BAT still exists as part of the federally-approved SIP for Ohio. Once US EPA approves the December 1, 2006 version of 3745-31-05, then these emission limits/control measures no longer apply.

b. The rule paragraph applies once US EPA approves the December 1, 2006 version of OAC rule 3745-31-05 as part of the State Implementation Plan.

The Best Available Technology (BAT) requirements under OAC rule 3745-31-05(A)(3) do not apply to the emissions of nitrogen oxides from this air contaminant source since the uncontrolled potential to emit for emissions of nitrogen oxides is less than 10 tons per year.

c. This emissions unit is exempt from the requirements of OAC rule 3745-18-06 via OAC rule 3745-18-06(B).

c) Operational Restrictions

(1) The permittee shall only burn biogas and/or natural gas in this emissions unit.

d) Monitoring and/or Recordkeeping Requirements

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

e) Reporting Requirements

(1) Annual Permit Evaluation Report (PER) forms will be mailed to the permittee at the end of the reporting period specified in the Authorization section of this permit. The permittee shall submit the PER in the form and manner provided by the director by the due date identified in the Authorization section of this permit. The permit evaluation report shall cover a reporting period of no more than twelve-months for each air contaminant source identified in this permit.

f) Testing Requirements

(1) Compliance with the emission limitations and operational restrictions specified in sections b) and c) shall be determined as follows:

a. Emission Limitations: Visible particulate emissions shall not exceed 20% opacity as a six-minute average, except as provided by rule

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

- b. Operational Restriction: The permittee shall only burn biogas and/or natural gas in this emissions unit.

Applicable Compliance Method: Compliance shall be determined by the record keeping specified in d)(1).

- c. Emission Limitation: Particulate emissions shall not exceed 0.020 pound per million BTU actual heat input.

Applicable Compliance Method: If required, particulate emissions shall be determined according to test Methods 1 – 5, as set forth in the “Appendix on Test Methods” in 40 CFR, Part 60 “Standards of Performance for New Stationary Sources”, and the procedures specified in OAC rule 3745-17-03(B)(9). Alternative US EPA-approved test methods may be used with prior approval from Ohio EPA, Northeast District Office.

- d. Emission Limitations: Emissions of NO_x shall not exceed 0.53 lb/hour and 2.32 tons per year.

Applicable Compliance Method: Compliance was demonstrated by multiplying 0.353 PPH/MM Btu (March 23, 2009, emissions testing of similar unit, 1.5 mm Btu/hour biogas boiler, at Bryant Stem, LLC in Peru, Indiana) x 1.5 MM Btu/hr = 0.53 lb/hour Annual emissions were determined by multiplying 0.53 lb/hour x 8760 hours/year x 1 ton/2000 lbs = 2.32 tons per year.

g) Miscellaneous Requirements

- (1) None.