



State of Ohio Environmental Protection Agency

STREET ADDRESS:

Lazarus Government Center  
50 W. Town St., Suite 700  
Columbus, Ohio 43215

TELE: (614) 644-3020 FAX: (614) 644-3184  
www.epa.ohio.gov

MAILING ADDRESS:

P.O. Box 1049  
Columbus, OH 43216-1049

2/1/2010

Certified Mail

HOLLY WEATHERHEAD  
North Regional Wastewater Treatment Plan  
3777 Old Needmore Rd.  
DAYTON, OH 45424

No	TOXIC REVIEW
No	PSD
No	SYNTHETIC MINOR
No	CEMS
No	MACT
Yes	NSPS
No	NESHAPS
No	NETTING
No	MAJOR NON-ATTAINMENT
No	MODELING SUBMITTED

RE: FINAL AIR POLLUTION PERMIT-TO-INSTALL AND OPERATE  
Facility ID: 0857143037  
Permit Number: P0105694  
Permit Type: Initial Installation  
County: Montgomery

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](http://www.epa.ohio.gov/dapc/permitsurvey.aspx) and give us feedback on your permitting experience. We value your opinion.

Ohio EPA maintains a document entitled "Frequently Asked Questions about the PTIO". The document can be downloaded from the DAPC Web page, [www.epa.ohio.gov/dapc](http://www.epa.ohio.gov/dapc), from the "Permits" link. This document contains additional information related to your permit, such as what activities are covered under the PTIO, who has enforcement authority over the permit and Ohio EPA's authorization to inspect your facility and records. Please contact the Office of Compliance Assistance and Pollution Prevention at (614) 644-3469 if you need assistance.

The issuance of this PTIO is a final action of the Director and may be appealed to the Environmental Review Appeals Commission ("ERAC") under Section 3745.04 of the Ohio Revised Code. The appeal must be in writing and describe the action complained of and the grounds for the appeal. The appeal must be filed with the ERAC within thirty (30) days after notice of the Director's action. A filing fee of \$70.00 must be submitted to the ERAC with the appeal, although the ERAC, has discretion to reduce the amount of the filing fee if you can demonstrate (by affidavit) that payment of the full amount of the fee would cause extreme hardship. If you file an appeal of this action, you must notify Ohio EPA of the filing of the appeal (by providing a copy to the Director) within three (3) days of filing your appeal with the ERAC. Ohio EPA requests that a copy of the appeal also be provided to the Ohio Attorney General's Office, Environmental Enforcement Section. An appeal may be filed with the ERAC at the following address:

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

If you have any questions regarding this permit, please contact the Regional Air Pollution Control Agency. This permit has been posted to the Division of Air Pollution Control (DAPC) Web page [www.epa.ohio.gov/dapc](http://www.epa.ohio.gov/dapc).

Sincerely,

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

Cc: RAPCA

Ted Strickland, Governor  
Lee Fisher, Lieutenant Governor  
Chris Korleski, Director





**State of Ohio Environmental Protection Agency  
Division of Air Pollution Control**

**FINAL**

**Air Pollution Permit-to-Install and Operate  
for  
North Regional Wastewater Treatment Plan**

Facility ID: 0857143037  
Permit Number: P0105694  
Permit Type: Initial Installation  
Issued: 2/1/2010  
Effective: 2/1/2010  
Expiration: 2/1/2020





**Air Pollution Permit-to-Install and Operate**  
for  
North Regional Wastewater Treatment Plan

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State of Ohio Environmental Protection Agency  
Division of Air Pollution Control

**Final Permit-to-Install and Operate**  
**Permit Number:** P0105694  
**Facility ID:** 0857143037  
**Effective Date:** 2/1/2010

# Authorization

Facility ID: 0857143037  
Application Number(s): A0038623, A0038668  
Permit Number: P0105694  
Permit Description: Initial installtion PTIO for a 2.845 mmBtu generator equipped to burn natural gas or digester gas and a 2.81 mmBtu/hr bio-diesel fueled generator.  
Permit Type: Initial Installation  
Permit Fee: \$400.00  
Issue Date: 2/1/2010  
Effective Date: 2/1/2010  
Expiration Date: 2/1/2020  
Permit Evaluation Report (PER) Annual Date: Jan 1 - Dec 31, Due Feb 15

This document constitutes issuance to:

North Regional Wastewater Treatment Plan  
3777 OLD NEEDMORE RD  
RIVERSIDE, OH 45424

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:

Regional Air Pollution Control Agency  
117 South Main Street  
Dayton, OH 45422-1280  
(937)225-4435

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



State of Ohio Environmental Protection Agency  
 Division of Air Pollution Control

**Final Permit-to-Install and Operate**  
**Permit Number:** P0105694  
**Facility ID:** 0857143037  
**Effective Date:** 2/1/2010

## Authorization (continued)

Permit Number: P0105694  
 Permit Description: Initial installtion PTIO for a 2.845 mmBtu generator equipped to burn natural gas or digester gas and a 2.81 mmBtu/hr bio-diesel fueled generator.

Permits for the following emissions unit(s) or groups of emissions units are in this document as indicated below:

<b>Emissions Unit ID:</b>	<b>B005</b>
Company Equipment ID:	Bio-gas Fueled Generator (BG-3)
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
<b>Emissions Unit ID:</b>	<b>B006</b>
Company Equipment ID:	Bio-diesel Fueled Generator (BD-4)
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable



State of Ohio Environmental Protection Agency  
Division of Air Pollution Control

**Final Permit-to-Install and Operate**

**Permit Number:** P0105694

**Facility ID:** 0857143037

**Effective Date:** 2/1/2010

## **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. For facilities that are permitted as synthetic minor sources, the fee schedule is adjusted annually for inflation. 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 Regional Air Pollution Control Agency 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 submitting 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 emission 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



State of Ohio Environmental Protection Agency  
Division of Air Pollution Control

**Final Permit-to-Install and Operate**  
**Permit Number:** P0105694  
**Facility ID:** 0857143037  
**Effective Date:** 2/1/2010

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 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.



State of Ohio Environmental Protection Agency  
Division of Air Pollution Control

**Final Permit-to-Install and Operate**

**Permit Number:** P0105694

**Facility ID:** 0857143037

**Effective Date:** 2/1/2010

## **B. Facility-Wide Terms and Conditions**



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.
2. Emissions unit B005 contained in this permit is subject to 40 CFR Part 60, Subpart JJJJ and 40 CFR Part 63, Subpart ZZZZ. The complete NSPS and MACT requirements, including the MACT General Provisions, may be accessed via the internet from the Electronic Code of Federal Regulation (e-CFR) website <http://ecfr.gpoaccess.gov> or by contacting the appropriate Ohio EPA District office or local air agency.
3. Emissions unit B006 contained in this permit is subject to 40 CFR Part 60, Subpart IIII and 40 CFR Part 63, Subpart ZZZZ. The complete NSPS and MACT requirements, including the MACT General Provisions, may be accessed via the internet from the Electronic Code of Federal Regulation (e-CFR) website <http://ecfr.gpoaccess.gov> or by contacting the appropriate Ohio EPA District office or local air agency.



State of Ohio Environmental Protection Agency  
Division of Air Pollution Control

**Final Permit-to-Install and Operate**

**Permit Number:** P0105694

**Facility ID:** 0857143037

**Effective Date:** 2/1/2010

## **C. Emissions Unit Terms and Conditions**



**1. B005, Bio-gas Fueled Generator (BG-3)**

**Operations, Property and/or Equipment Description:**

2.845 mmBtu/hr and 460 HP (315 kW) generator equipped to burn natural gas or digester gas

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 operations(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. 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)(a)(ii)	See b)(2)a.
b.	OAC rule 3745-17-07(A)(1)	Visible particulate emissions (PE) from any stack serving this emissions unit shall not exceed 20% opacity as a 6-minute average, except as provided by the rule.
c.	OAC rule 3745-17-11(B)(5)	PE shall not exceed 0.310 pound per mmBtu of actual heat input.
d.	OAC rule 3745-18-06(G)	This emissions unit is exempt from the requirements of OAC rule 3745-18-06(G) pursuant to OAC rule 3745-18-06(B).
e.	40 CFR Part 60 subpart JJJJ (40 CFR 60.4230 – 4248) Standards of Performance for Stationary Spark Ignition Internal Combustion Engines  [In accordance with 40 CFR 60.4230(a)(4)(iii), this emissions unit is a stationary spark ignition (SI) internal combustion engine (ICE) with a maximum engine power less	<b>When burning digester gas:</b> Nitrogen oxide (NOx) emissions shall not exceed 3.0 g/HP-hr.  Carbon monoxide (CO) emissions shall not exceed 5.0 g/HP-hr.  Volatile organic compound (VOC) emissions shall not exceed 1.0 g/HP-hr.  <b>When burning natural gas:</b>



	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
	than 500 HP equipped to burn natural gas or digester gas.]	NOx emissions shall not exceed 2.0 g/HP-hr.  CO emissions shall not exceed 4.0 g/HP-hr.  VOC emissions shall not exceed 1.0 g/HP-hr.  [40 CFR Part 60.4233(e), & 40 CFR 60, Subpart JJJJ, Table 1]
f.	40 CFR Part 63, Subpart ZZZZ (40 CFR 63.6580 - 63.6675)  [In accordance with 40 CFR 63.6590(a)(2)(iii), this emissions unit is a stationary compression ignition internal combustion engine located at an area source of HAP emissions]	Pursuant to 40 CFR 63.6590(c), stationary spark ignition reciprocating internal combustion engines (RICE) located at an area source of HAP emissions must meet the requirements of this part by meeting the requirements of 40 CFR Part 60 Subpart JJJJ for spark ignition engines.  Pursuant to 40 CFR 63.6665, the General Provisions in 40 CFR 63.1 through 63.15 do not apply to a stationary RICE located at an area source of HAP emissions.
g.	40 CFR 60.1 – 19 (40 CFR 60.4246)	Table 3 to Subpart JJJJ of 40 CFR Part 60 – Applicability of General Provisions to Subpart JJJJ shows which part of the General Provisions in 40 CFR 60.1 – 19 apply

(2) Additional Terms and Conditions

- a. The Best Available Technology (BAT) requirements under OAC rule 3745-31-05(A)(3) do not apply to the PE, NOx, SO<sub>2</sub>, VOC and CO emissions from this air contaminant source since the uncontrolled potential to emit for PE, NOx, SO<sub>2</sub>, VOC and CO is each less than 10 tons/year.
- b. The spark ignition (SI) internal combustion engine 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.  
  
If the engine was not certified at the factory, the emission standard for the “owner/operator” should be referenced as from 60.4233(e).
- c. The permittee shall comply with the applicable requirements under 40 CFR Part 60, Subpart JJJJ, including the following sections.



60.4243	Demonstrate compliance
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c) Operational Restrictions

- (1) The permittee shall burn only natural gas and/or digester gas in this emissions unit.
- (2) The permittee shall comply with the applicable restrictions of 40 CFR Part 60 Subpart JJJJ, including the following sections:

60.4234	Duration of compliance with emissions standards
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d) Monitoring and/or Recordkeeping Requirements

- (1) For each day during which the permittee burns a fuel other than natural gas and/or digester gas fuel, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.
- (2) The permittee shall comply with the applicable restrictions of 40 CFR Part 60 Subpart JJJJ, including the following sections:

60.4245(a)	Notification, record keeping, and reporting requirements.
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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) 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. actual start-up date (within 15 days after such date); and
  - c. date of performance testing (if required, at least 30 days prior to testing).

These reports and other such notifications shall be submitted to the following addresses:

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



and

Regional Air Pollution Control Agency  
117 South Main Street  
Dayton, OH 45422-1280

f) Testing Requirements

- (1) To demonstrate compliance with the emission standards specified in §60.4233(e), you must demonstrate compliance according to one of the following methods:
  - a. Purchasing an engine certified according to procedures specified in 40 CFR Subpart JJJJ, for the same model year and demonstrating compliance according to one of the methods specified in paragraph §60.4243(a).
    - i. If the permittee operates and maintains the certified stationary SI internal combustion engine according to the manufacturer's emission-related written instructions, the permittee must keep records of conducted maintenance to demonstrate compliance, but no performance testing is required.
    - ii. If the permittee does not operate and maintain the certified stationary SI internal combustion engine according to the manufacturer's emission-related written instructions, the engine will be considered a non-certified engine, and the permittee must keep a maintenance plan and records of conducted maintenance and must maintain and operated the engine in a manner consistent with good air pollution control practice for minimizing emissions. In addition, the permittee must conduct an initial performance test within 1 year of engine startup and conduct subsequent performance testing every 8,760 hours or 3 years, whichever comes first, thereafter to demonstrate compliance.
  - b. Purchasing a non-certified engine and demonstrating compliance with the emission standards specified in §60.4233(e) and according to the requirements specified in §60.4244, as applicable. The permittee must keep a maintenance plan and records of conducted maintenance and must, to the extent practicable, maintain and operate the engine in a manner consistent with good air pollution control practice for minimizing emissions. In addition, the permittee must conduct an initial performance test and conduct subsequent performance testing every 8,760 hours or 3 years, whichever comes first, thereafter to demonstrate compliance.
- (2) If the permittee chooses to demonstrate compliance with the emission standards specified in §60.4233(e) by performing a stack test, the permittee shall conduct, or have conducted, emission testing for this emissions unit in accordance with the procedures specified in 40 CFR §60.4244, 40 CFR Part 60 Subpart JJJJ Table 2, and the following requirements.
  - a. Conduct performance testing in the following manner:
    - i. if the permittee is purchasing an engine certified according to procedures specified in 40 CFR Subpart JJJJ but does not operate and maintain the



certified stationary SI internal combustion engine and control device according to the manufacturer's emission-related written instructions an initial performance test shall be performed to demonstrate compliance with the mass emissions limitations in §60.4233(e) for VOC, NO<sub>x</sub>, and CO, within 1 year of start up. In addition, subsequent performance testing will be conducted every 8,760 hours or 3 years, whichever comes first, thereafter to demonstrate compliance with the mass emissions limitations in §60.4233(e) for VOC, NO<sub>x</sub>, and CO; or

- ii. if the permittee is purchasing a non-certified engine, an initial performance test shall be performed to demonstrate compliance with the mass emissions limitations in §60.4233(e) for VOC, NO<sub>x</sub>, and CO, within 60 days after achieving the maximum production rate at which the emissions unit will be operated, but not later than 180 days after initial startup of the emissions unit. In addition, subsequent performance testing will be conducted every 8,760 hours or 3 years, whichever comes first, thereafter to demonstrate compliance with the mass emissions limitations in §60.4233(e) for VOC, NO<sub>x</sub>, and CO.
  - b. If the stationary internal combustion engine is rebuilt, or undergoes major repair or maintenance the permittee shall conduct subsequent performance test.
  - c. Each performance test must be conducted within 10 percent of 100 percent peak (or the highest achievable) load and according to the requirements in §60.8 and under the specific conditions that are specified by Table 2 of 40 CFR Part 60, Subpart JJJJ.
  - d. Not later than 60 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the appropriate Ohio EPA District Office or local air agency. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the test(s), and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the Ohio EPA District Office's or local air agency's refusal to accept the results of the emission test(s).
  - e. Personnel from the appropriate Ohio EPA District Office or local air agency shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.
  - f. A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the appropriate Ohio EPA District Office or local air agency within 30 days following completion of the test(s). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the appropriate Ohio EPA District Office or local air agency.
- (3) Compliance with the emission limitations in (b)(1) of these terms and conditions shall be determined in accordance with the following methods:



a. Emissions Limitation

Particulate emissions (PE) shall not exceed 0.310 pound/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)(10).

b. Emissions Limitation

Visible PE from any stack serving this emissions unit shall not exceed 20% opacity as a 6-minute average, except as provided by the rule.

Applicable Compliance Method

If required, visible particulate emissions shall be determined according to USEPA Method 9.

c. Emissions Limitation

When burning digester gas, NO<sub>x</sub> emissions shall not exceed 3.0 g/HP-hr.

When burning natural gas, NO<sub>x</sub> emissions shall not exceed 2.0 g/HP-hr.

Applicable Compliance Method

If required, NO<sub>x</sub> emissions shall be determined according to USEPA Test Methods 1-4 and 7.

d. Emissions Limitation

When burning digester gas, CO emissions shall not exceed 5.0 g/HP-hr.

When burning natural gas, CO emissions shall not exceed 4.0 g/HP-hr.

Applicable Compliance Method

If required, CO emissions shall be determined according to USEPA Test Methods 1 - 4 and 10.

e. Emissions Limitation

When burning digester gas, VOC emissions shall not exceed 1.0 g/HP-hr.

When burning natural gas, VOC emissions shall not exceed 1.0 g/HP-hr.

Applicable Compliance Method

If required, VOC emissions shall be determined according to USEPA Test Methods 1-4 and 25, 25A or 40 CFR Part 63, Appendix A, Method 320.



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**Facility ID:** 0857143037

**Effective Date:** 2/1/2010

g) Miscellaneous Requirements

(1) None.



**2. B006, Bio-diesel Fueled Generator (BD-4)**

**Operations, Property and/or Equipment Description:**

3.11 mmBtu/hr and 490 HP (300 KW) bio-diesel fueled generator

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 operations(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. 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.	ORC 3704.03(T)	Nitrogen oxide (NOx) emissions from this emissions unit shall not exceed 4.0 g/KW-hr.  Carbon monoxide emissions (CO) emissions from this emissions unit shall not exceed 3.5 g/KW-hr.
b.	OAC rule 3745-31-05(A)(3)(a)(ii)	See b)(2)a.
c.	OAC rule 3745-17-07(A)(1)	Visible particulate emissions (PE) from any stack serving this emissions unit shall not exceed 20% opacity as a 6-minute average, except as provided by the rule.
d.	OAC rule 3745-17-11(B)(5)(a)	PE shall not exceed 0.310 lb/mmBtu of actual heat input.
e.	OAC rule 3745-18-06(G)	This emissions unit is exempt from the requirements of OAC rule 3745-18-06(G) pursuant to OAC rule 3745-18-06(B).
f.	40 CFR Part 60, Subpart IIII (40 CFR 60.4200 - 60.4219)  [In accordance with 40 CFR	NOx + Non methane hydrocarbon emissions (NMHC) emissions from this emissions unit shall not exceed 4.0 g/KW-hr.



	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
	60.4200(a)(2)(i), this emissions unit is a stationary compression ignition internal combustion engine subject to the emissions limitations specified in this section.]	CO emissions from this emissions unit shall not exceed 3.5 g/KW-hr.  PE from this emissions unit shall not exceed 0.20 g/KW-hr.  [40 CFR 60.4204(b) and Table 1 to Supart IIII of 40 CFR Part 60]  See b)(2)
g.	40 CFR Part 63, Subpart ZZZZ (40 CFR 63.6580 - 63.6675)  [In accordance with 40 CFR 636590(a)(2)(iii), this emissions unit is a stationary compression ignition internal combustion engine located at an area source of HAP emissions]	Pursuant to 40 CFR 63.6590(c), stationary compression ignition reciprocating internal combustion engines (RICE) located at an area source of HAP emissions must meet the requirements of this part by meeting the requirements of 40 CFR Part 60 Subpart IIII for compression ignition engines.  Pursuant to 40 CFR 63.6665, the General Provisions in 40 CFR 63.1 through 63.15 do not apply to a stationary RICE located at an area source of HAP emissions.

(2) Additional Terms and Conditions

- a. The Best Available Technology (BAT) requirements under OAC rule 3745-31-05(A)(3) do not apply to the PE, SO<sub>2</sub> and VOC emissions from this air contaminant source since the uncontrolled potential to emit for PE, SO<sub>x</sub>, and VOC is each less than 10 tons/year.
- b. The permittee shall comply with the applicable requirements of 40 CFR Part 60 Subpart IIII, including the following sections:

60.4207(a) and (b)	Fuel requirements
60.4208	Installation deadlines
60.4211(c)	Compliance demonstration

- c. This emissions unit is subject to 40 CFR Part 60, Subpart IIII, Standards of Performance for Stationary Compression Ignition Internal Combustion Engines. The permittee shall comply with all applicable requirements of 40 CFR Part 60, Subpart IIII. The permittee shall also comply with all applicable requirements of 40 CFR Part 60, Subpart A. (General Provisions) as identified in Table 8 of 40 CFR Part 60, Subpart IIII.



c) Operational Restrictions

- a. The permittee shall comply with the applicable requirements of 40 CFR Part 60 Subpart IIII, including the following sections:

60.4206	Duration of compliance with emissions standards
60.4211(a)	Maintenance requirements

d) Monitoring and/or Recordkeeping Requirements

- (1) For each shipment of diesel fuel received for burning in this emissions unit, the permittee shall retain documentation that the fuel meets the requirements for non-road, locomotive and marine fuel in 40 CFR 80.510 and b)(2)b.

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) 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. actual start-up date (within 15 days after such date); and
  - c. date of performance testing (if required, at least 30 days prior to testing).

These reports and other such notifications shall be submitted to the following addresses:

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

and

Regional Air Pollution Control Agency  
117 South Main Street  
Dayton, OH 45422-1280

f) Testing Requirements

- (1) Compliance with the emission limitations in (b)(1) of these terms and conditions shall be determined in accordance with the following methods:



a. Emission Limitation

NOx emissions from this emissions unit shall not exceed 4.0 g/KW-hr.

Applicable Compliance Method

If required, NOx emissions shall be determined according to USEPA Test Methods 1 - 4 and 7.

b. Emission Limitation

CO emissions from this emissions unit shall not exceed 3.5 g/KW-hr.

Applicable Compliance Method

If required, CO emissions shall be determined according to USEPA Test Methods 1 - 4 and 10.

c. Emission Limitation

PE from this emissions unit shall not exceed 0.20 g/KW-hr.

Applicable Compliance Method

If required, PE emissions shall be determined according to USEPA Test Methods 1 – 5.

d. Emission Limitation

NOx + NMHC emissions from this emissions unit shall not exceed 4.0 g/KW-hr.

Applicable Compliance Method

Compliance with the emission limitations shall be based on the manufacturer's certification of the engine which certifies the NOx + NMHC emissions at 4.0 g/KW-hr and the manufacturer information submitted with the permit application package demonstrating that the portion of this emission factor comprised of NOx is 3.53 g/KW-hr. and HC is 0.15 g/KW-hr and by maintaining the engine according to the manufacturer's specifications.

Emission Limitation

Visible particulate emissions from the stack serving this emissions unit shall not exceed 20% opacity as a six-minute average.

Applicable Compliance Method

Compliance shall be determined through visible emission observations performed in accordance with U.S. EPA Method 9.

e. Emission Limitation

PE shall not exceed 0.310 lb/MmBtu of actual heat input.



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Applicable Compliance Method

Compliance may be based upon an emission factor of 0.310 lb/MmBtu. This emission factor is specified in the "Compilation of Air Pollutant Emission Factors," AP-42, Fifth Edition, Table 3.3-1 (10/96).

If required, the permittee shall demonstrate compliance with this emission limitation in accordance with the methods and procedures specified in OAC rule 3745-17-03(B)(10).

g) Miscellaneous Requirements

- (1) None.