



Environmental Protection Agency

John R. Kasich, Governor
Mary Taylor, Lt. Governor
Scott J. Nally, Director

3/20/2012

MICHAEL T HEHER
County Land Development Landfill
8100 STATELINE RD
LOWELLVILLE, OH 44436

RE: FINALAIR POLLUTION PERMIT-TO-INSTALL AND OPERATE
Facility ID: 0250000828
Permit Number: P0085605
Permit Type: Renewal
County: Mahoning

Certified Mail

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

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 Josh Mandel," 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 DAPCWeb 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
County Land Development Landfill**

Facility ID:	0250000828
Permit Number:	P0085605
Permit Type:	Renewal
Issued:	3/20/2012
Effective:	3/20/2012
Expiration:	3/20/2022



Division of Air Pollution Control
Permit-to-Install and Operate
for
County Land Development Landfill

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Authorization

Facility ID: 0250000828
Application Number(s): A0016277
Permit Number: P0085605
Permit Description: Renewal PTIO for closed landfill with active landfill gas control system
Permit Type: Renewal
Permit Fee: \$0.00
Issue Date: 3/20/2012
Effective Date: 3/20/2012
Expiration Date: 3/20/2022
Permit Evaluation Report (PER) Annual Date: Jan 1 - Dec 31, Due Feb 15

This document constitutes issuance to:

County Land Development Landfill
9960 S RANGE RD
Green Twp., OH 44460

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

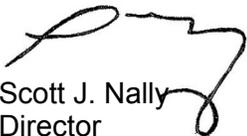
Ohio EPA District Office or local air agency responsible for processing and administering your permit:

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



Scott J. Nally
Director



Authorization (continued)

Permit Number: P0085605

Permit Description: Renewal PTIO for closed landfill with active landfill gas control system

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

Emissions Unit ID:	P001
Company Equipment ID:	Enclosed Flare
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.

¹Permittees 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).

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 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

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. P001, Enclosed Flare

Operations, Property and/or Equipment Description:

Closed MSW Landfill Controlled by a 1,111 scfm Landfill Gas Collection System and 30.3 MMBtu/Hr Enclosed 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) (PTI 02-6719 Effective as modified on 12/5/1996)	Outlet NMOC concentration of 20 ppmv (as hexane) or less on a dry basis or achieve a 98% weight reduction in NMOCs. Particulate emissions shall not exceed 0.67 lb/hr and 2.92 TPY. Sulfur dioxide shall not exceed 0.55 lb/hr and 2.39 TPY. Non-methane organic compounds shall not exceed 1.16 lb/hr and 5.08 TPY. Nitrogen oxides shall not exceed 2.40 lb/hr and 10.50 TPY. Carbon monoxide shall not exceed 11.99

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
		lb/hr and 52.50 TPY. Hydrochloric acid shall not exceed 1.12 lb/hr and 4.93 TPY. Benzene shall not exceed 0.01 lb/hr and 0.04 TPY. Vinyl chloride shall not exceed 0.01 lb/hr and 0.04 TPY.
b.	40 CFR 60 Subpart Cc (60.30c - 36c)	See b)(2)a.
c.	OAC rule 3745-15-07	See b)(2)b.
d.	OAC rule 3745-17-07(B)(1)	Exempt, pursuant to OAC rule 3745-17-07(B)(11)(e).
e.	OAC rule 3745-17-08(B)	Located in an non-Appendix A area and thus exempt, pursuant to OAC rule 3745-17-08(A)(1).
f.	OAC rule 3745-19	See b)(2)c.

(2) Additional Terms and Conditions

- a. Tier 2 testing as required by this subpart indicates that the maximum nonmethane organic compound emissions will not exceed 50 Mg per year. Further, this facility closed in 2009. Thus the landfill is not subject to the control system requirements of this subpart.
- b. The permittee shall operate this facility in such a manner that it does not become offensive or objectionable to the public in violation of OAC Rule 3745-15-07. Odor mitigation measures which are deemed appropriate by the Ohio EPA as necessary to protect the comfort, repose, health, or safety of the public, shall be implemented upon request.
- c. The permittee shall not cause or allow any open burning at this location.

c) Operational Restrictions

- (1) Design, construction and siting of the gas extraction wells and collection system shall be in accordance with the CLD and Lewis (BFI of Ohio) PTI application, and standard industry methods and practices currently in use. In addition, the gas collection system shall:
 - a. Be designed to handle the maximum expected gas flow rate over the lifetime of the gas control or treatment system equipment from the entire area of the landfill that warrants control over the equipment lifetime.

- b. Collect gas from each area of the landfill in which refuse has been placed for a period of 2 years or more when the adjacent gas monitoring probes indicate offsite migration.
 - c. Collect gas at a sufficient extraction rate.
- (2) All collected landfill gas shall be routed to an enclosed flare control system designed and operated within the parameters demonstrated in the performance test.
 - (3) Whenever the flare is in operation, a temperature of at least 1400 degrees Fahrenheit (or higher temperature needed to insure 98 weight-percent destruction of the NMOCs), measured by the temperature indicator, must be maintained.
 - (4) If the temperature monitor detects a no flame condition which cannot be immediately restarted, the system shall automatically shut down the flow of landfill gas.
 - (5) The equipment shall be operated and maintained by personnel properly trained in its operation.
- d) **Monitoring and/or Recordkeeping Requirements**
- (1) This permittee shall install a sampling port at each well and measure and record the gauge pressure in the gas collection header on a monthly basis. These monthly records, as well as any supporting data, shall be retained in the company's files for a period of not less than five years and shall be made available to the director or any authorized representative of the director for review during normal business hours.
 - (2) This permittee shall operate and maintain a continuous temperature monitor and recorder which measures and records the temperature in the combustion device. This monitor shall have an accuracy of plus or minus 1 percent of the temperature being measured expressed in degrees Celsius or plus or minus .5 degrees Celsius, whichever is greater. The temperature monitor and recorder shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, instructions and operating manuals. These records, as well as any supporting data, shall be retained in the company's files for a period of not less than five years and shall be made available to the director or any authorized representative of the director for review during normal business hours.
 - (3) This facility shall operate and maintain a continuous gas flow monitor and recorder which measures and records the gas flow to the control device at least every 15 minutes. The gas flow monitor and recorder shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions and operating manuals. These records, as well as any supporting data, shall be retained in the company's files for a period of not less than five years and shall be made available to the director or any authorized representative of the director for review during normal business hours.
 - (4) All recording devices shall be synchronized based on the time of day.

e) Reporting Requirements

- (1) The permittee shall submit an annual Permit Evaluation Report (PER) to the Ohio EPA District Office 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. It is recommended that the PER is submitted electronically through the Ohio EPA's "e-Business Center: Air Services" although PERs can be submitted via U.S. postal service or can be hand delivered.
- (2) The annual PER shall include:
 - a. the date and time of each occurrence and the cause, duration, explanation and action taken for any times when the gauge pressure of any well is positive;
 - b. date and time of each occurrence and the cause, duration, explanation and action taken for any times when the temperature falls below the 1400 degrees Fahrenheit;
 - c. the date and time of each occurrence and the cause, duration, explanation and action taken for any times when the gas stream is diverted from the control device or has no flow rate; and
 - d. the date and time of each occurrence and the cause, duration, explanation and action taken for all periods during which the pilot flame was not functioning properly.
- (3) Any breakdown or malfunction of the landfill gas flare resulting in the emission of raw landfill gas shall be reported to the Northeast District Office of the Ohio EPA within one hour after the occurrence, or as soon as reasonably possible, and immediate remedial measures shall be undertaken to correct the problem and prevent further emission to the atmosphere.
- (4) In the event of a potential emergency, such as a fire within the landfill, wells affected may be temporarily shut off, which could result in a negative gauge pressure. The permittee shall notify the Northeast District Office of the Ohio EPA within one working day of any shut downs of any wells.

f) Testing Requirements

- (1) Compliance with the Emissions Limitations and/or Control Requirements specified in section b) of these terms and conditions shall be determined in accordance with the following methods:
 - a. Emission Limitation

Outlet NMOC concentration of 20 ppmv (as hexane) or less on a dry basis or achieve a 98% weight reduction in NMOCs.

Applicable Compliance Method:

If required, Method 25, 25C, or Method 18 of appendix A of 40 CFR Part 60 shall be used to determine compliance. Method 3 or 3A shall be used to determine oxygen for correcting the NMOC concentration as hexane to 3%.

b. Emission Limitation

Particulate emissions shall not exceed 0.67 lb/hr and 2.92 TPY.

Applicable Compliance Method

If required, the permittee shall demonstrate compliance with the hourly emission limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4 and 5.

Compliance with the short term emission limitation may be calculated by the equation below:

$$E = EF \times Q \times PM \times 60$$

where:

E = emission rate, lb/hr;

EF = emission factor from AP-42, Section 2.4 MSW Landfills (11/98), 17 lbs/10⁶ ft³ of CH₄;

Q = flow rate of combustor, scfm;

PM = fractional portion of LFG that is CH₄, 0.50; and
60 conversion factor, minute/hour.

The initial annual emission limitation was established by multiplying the hourly emission limitation by 8,760 hours/yr and dividing by 2,000 lbs/ton. Therefore, provided compliance is shown with the hourly limitation, compliance with the annual limitation will be satisfied.

c. Emission Limitation

Sulfur dioxide shall not exceed 0.55 lb/hr and 2.39 TPY.

Applicable Compliance Method

If required, the permittee shall demonstrate compliance with the hourly emission limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4 and 6C.

Compliance with the short term emission limitation shall be calculated by the equations below:

$$E = (Q \times (46.9 \text{ ppmv} / 1,000,000 \text{ MMscf/scf})) \times (64.066 \text{ molecular weight of SO}_2) / (386 \text{ scf/lb-mol LFG}) \times (60 \text{ min/hr})$$

Where:

E= emission rate, in pound per hour;

Q= actual landfill gas flow rate to the flare, i.e., 1111 scfm maximum;

46.9 ppmv = sulfur concentration in landfill gas from AP-42, Section 2.4 MSW Landfills; and

386 = the mass volume of landfill gas, in scf/lb-mol.

The initial annual emission limitation was established by multiplying the hourly emission limitation by 8,760 hours/yr and dividing by 2,000 lbs/ton. Therefore, provided compliance is shown with the hourly limitation, compliance with the annual limitation will be satisfied.

d. Emission Limitation

Non-methane organic compounds shall not exceed 1.16 lb/hr and 5.08 TPY.

Applicable Compliance Method

Compliance with the short term emission limitation shall be calculated by the equations below:

$E = (Q \times (595 \text{ ppmv} / 1,000,000 \text{ MMscf/scf})) \times (86.18 \text{ molecular weight of NMOC as hexane}) / (386 \text{ scf/lb-mol LFG}) \times 60 \text{ min/hr} (1 - 0.98)$

Where:

E= emission rate, in pound per hour;

Q= actual landfill gas flow rate to the flare, i.e., 1111 scfm maximum;

595 ppmv = default NMOC concentration in landfill gas from AP-42, Section 2.4 MSW Landfills, or other site specific factor; and

386 = the mass volume of landfill gas, in scf/lb-mol; and

98 % = is the minimum destruction efficiency of the control device.

The initial annual emission limitation was established by multiplying the hourly emission limitation by 8,760 hours/yr and dividing by 2,000 lbs/ton. Therefore, provided compliance is shown with the hourly limitation, compliance with the annual limitation will be satisfied.

e. Emission Limitation

Nitrogen oxides shall not exceed 2.40 lb/hr and 10.50 TPY.

Applicable Compliance Method

If required, the permittee shall demonstrate compliance with the hourly emission limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4 and 7 or 7E.

Compliance with the short term carbon monoxide emission rate shall be calculated according to the following formula:

$$\text{PPH} = \text{EF} \times \text{F} \times \text{HV} \times 60/10^6$$

where:

PPH = emissions, lbs/hr;
EF = emission factor, 0.10 lb/mmBtu manufacturer's guarantee;
F = flow rate of LFG to combustor, ft³/min;
HV = heating value of LFG, 500 Btu/ft³ or site specific value;
60 = conversion factor, minute/hour; and
10⁶ = conversion factor, Btu/mmBtu.

The initial annual emission limitation was established by multiplying the hourly emission limitation by 8,760 hours/yr and dividing by 2,000 lbs/ton. Therefore, provided compliance is shown with the hourly limitation, compliance with the annual limitation will be satisfied.

f. Emission Limitation

Carbon monoxide shall not exceed 11.99 lb/hr and 52.50 TPY.

Applicable Compliance Method

If required, compliance shall be demonstrated by using 40 CFR, Part 60, Appendix A, Method 10.

Compliance with the short term carbon monoxide emission rate shall be calculated according to the following formula:

$$\text{PPH} = \text{EF} \times \text{F} \times \text{HV} \times 60/10^6$$

where:

PPH = emissions, lbs/hr;
EF = emission factor, 0.40 lb/mmBtu manufacturer's guarantee;
F = flow rate of LFG to combustor, ft³/min;
HV = heating value of LFG, 500 Btu/ft³ or site specific value;
60 = conversion factor, minute/hour; and
10⁶ = conversion factor, Btu/mmBtu.

The initial annual emission limitation was established by multiplying the hourly emission limitation by 8,760 hours/yr and dividing by 2,000 lbs/ton. Therefore, provided compliance is shown with the hourly limitation, compliance with the annual limitation will be satisfied.

g. Emission Limitation

Hydrochloric acid shall not exceed 1.12 lb/hr and 4.93 TPY.

Applicable Compliance Method

If required, the permittee shall demonstrate compliance with the hourly emission limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4 and 6C. If required, compliance shall be demonstrated by using 40 CFR, Part 60, Appendix A, Method 26.

Compliance with the short term and annual emission rates shall be determined using the Landfill Gas Emissions Model (LandGEM), version 3.02 or newer version.

h. Emission Limitation

Benzene shall not exceed 0.01 lb/hr and 0.04 TPY.

Applicable Compliance Method

Compliance with the short term and annual emission rates shall be determined using the Landfill Gas Emissions Model (LandGEM), version 3.02 or newer version.

a. Emission Limitation

Vinyl chloride shall not exceed 0.01 lb/hr and 0.04 TPY.

Applicable Compliance Method

Compliance with the short term and annual emission rates shall be determined using the Landfill Gas Emissions Model (LandGEM), version 3.02 or newer version.

g) Miscellaneous Requirements

(1) None.