



John R. Kasich, Governor  
Mary Taylor, Lt. Governor  
Craig W. Butler, Director

8/2/2016

Certified Mail

Scott Herman  
Mahoning Landfill, Inc.  
3510 Garfield Road  
New Springfield, OH 44443

Facility ID: 0250000840  
Permit Number: P0115893  
County: Mahoning

RE: FINAL AIR POLLUTION CONTROL TITLE V PERMIT  
Permit Type: Renewal

Dear Permit Holder:

Enclosed is a final Ohio Environmental Protection Agency (EPA) Air Pollution Title V permit that allows you to operate the facility in the manner indicated in the permit. Because this permit may contain several conditions and restrictions, we urge you to read it carefully. In this letter you will find the information on the following topics:

- **How to appeal this permit**
- **How to save money, reduce pollution and reduce energy consumption**
- **How to give us feedback on your permitting experience**
- **How to get an electronic copy of your permit**
- **What should you do if you notice a spill or environmental emergency?**

**How to appeal this permit**

The issuance of this Title V permit 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  
77 South High Street, 17th Floor  
Columbus, OH 43215

## **How to save money, reduce pollution and reduce energy consumption**

The Ohio EPA is encouraging companies to investigate pollution prevention and energy conservation. Not only will this reduce pollution and energy consumption, but it can also save you money. If you would like to learn ways you can save money while protecting the environment, please contact our Office of Compliance Assistance and Pollution Prevention at (614) 644-3469. Additionally, all or a portion of the capital expenditures related to installing air pollution control equipment under this permit may be eligible for financing and State tax exemptions through the Ohio Air Quality Development Authority (OAQDA) under Ohio Revised Code Section 3706. For more information, see the OAQDA website: [www.ohioairquality.org/clean\\_air](http://www.ohioairquality.org/clean_air)

## **How to give us feedback on your permitting experience**

Please complete a survey at [www.epa.ohio.gov/survey.aspx](http://www.epa.ohio.gov/survey.aspx) and give us feedback on your permitting experience. We value your opinion.

## **How to get an electronic copy of your permit**

This permit can be accessed electronically via the eBusiness Center: Air Services in Microsoft Word format or in Adobe PDF on the Division of Air Pollution Control (DAPC) Web page, [www.epa.ohio.gov/dapc](http://www.epa.ohio.gov/dapc) by clicking the "Search for Permits" link under the Permitting topic on the Programs tab.

## **What should you do if you notice a spill or environmental emergency?**

Any spill or environmental emergency which may endanger human health or the environment should be reported to the Emergency Response 24-HOUR EMERGENCY SPILL HOTLINE toll-free at (800) 282-9378. Report non-emergency complaints to the appropriate district office or local air agency.

If you have any questions regarding this permit, please contact the Ohio EPA DAPC, Northeast District Office as indicated on page one of your permit.

Sincerely,



Michael E. Hopkins, P.E.  
Assistant Chief, Permitting Section, DAPC

Cc: U.S. EPA Region 5  
Via E-Mail Notification  
Ohio EPA DAPC, Northeast District Office



**FINAL**

**Division of Air Pollution Control  
Title V Permit  
for  
Mahoning Landfill, Inc.**

Facility ID:	0250000840
Permit Number:	P0115893
Permit Type:	Renewal
Issued:	8/2/2016
Effective:	8/23/2016
Expiration:	8/23/2021





**Division of Air Pollution Control**  
**Title V Permit**  
for  
Mahoning Landfill, Inc.

**Table of Contents**

Authorization .....	1
A. Standard Terms and Conditions .....	2
1. Federally Enforceable Standard Terms and Conditions .....	3
2. Monitoring and Related Record Keeping and Reporting Requirements.....	3
3. Reporting of Any Exceedence of a Federally Enforceable Emission Limitation or Control Requirement Resulting From Scheduled Maintenance.....	6
4. Risk Management Plans .....	7
5. Title IV Provisions .....	7
6. Severability Clause .....	7
7. General Requirements .....	7
8. Fees.....	8
9. Marketable Permit Programs.....	8
10. Reasonably Anticipated Operating Scenarios .....	9
11. Reopening for Cause .....	9
12. Federal and State Enforceability .....	9
13. Compliance Requirements .....	9
14. Permit Shield .....	11
15. Operational Flexibility.....	11
16. Emergencies.....	12
17. Off-Permit Changes .....	12
18. Compliance Method Requirements .....	12
19. Insignificant Activities or Emissions Levels.....	13
20. Permit to Install Requirement.....	13
21. Air Pollution Nuisance .....	13
22. Permanent Shutdown of an Emissions Unit .....	13
23. Title VI Provisions .....	13
24. Reporting Requirements Related to Monitoring and Record Keeping Requirements Under State Law Only .....	14
25. Records Retention Requirements Under State Law Only.....	14
26. Inspections and Information Requests .....	14
27. Scheduled Maintenance/Malfunction Reporting For State-Only Requirements.....	15
28. Permit Transfers .....	15



29. Additional Reporting Requirements When There Are No Deviations of Federally Enforceable Emission Limitations, Operational Restrictions, or Control Device Operating Parameter Limitations .....	15
30. Submitting Documents Required by this Permit .....	16
B. Facility-Wide Terms and Conditions.....	17
C. Emissions Unit Terms and Conditions .....	20
1. F001, Roadways and parking areas.....	21
2. F002, Landfill operations.....	26
3. F003, Soil stockpiles .....	40
4. Emissions Unit Group - RICE: EG1 - EG6: P001, P002, P003, P004, and P005.....	46



**Final Title V Permit**  
Mahoning Landfill, Inc.  
**Permit Number:** P0115893  
**Facility ID:** 0250000840  
**Effective Date:** 8/23/2016

## Authorization

Facility ID: 0250000840  
Facility Description: Sanitary Landfill  
Application Number(s): A0049186  
Permit Number: P0115893  
Permit Description: Title V renewal permit for a municipal sanitary landfill including the following emissions units: roadways and parking areas (F001), municipal solid waste landfill operations (F002), storage piles (F003), and five reciprocating internal combustion engines (P001-P005) of 1148 hp each. The engines, emissions units P001-P005, combust landfill gas to produce electricity.  
Permit Type: Renewal  
Issue Date: 8/2/2016  
Effective Date: 8/23/2016  
Expiration Date: 8/23/2021  
Superseded Permit Number: P0085611

This document constitutes issuance of an OAC Chapter 3745-77 Title V permit to:

Mahoning Landfill, Inc.  
3510 Garfield Road  
Springfield Twp., OH 44443

Ohio Environmental Protection Agency (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)963-1200

The above named entity is hereby granted a Title V permit pursuant to Chapter 3745-77 of the Ohio Administrative Code. This permit and the authorization to operate the air contaminant sources (emissions units) at this facility shall expire at midnight on the expiration date shown above. You will be sent a notice approximately 18 months prior to the expiration date regarding the renewal of this permit. If you do not receive a notice, please contact the Ohio EPA DAPC, Northeast District Office. If a renewal permit is not issued prior to the expiration date, the permittee may continue to operate pursuant to OAC rule 3745-77-08(E) and in accordance with the terms of this permit beyond the expiration date, if a timely renewal application is submitted. A renewal application will be considered timely if it is submitted no earlier than 18 months and no later than 6 months prior to the expiration date.

This permit is granted subject to the conditions attached hereto.

Ohio Environmental Protection Agency

  
Craig W. Butler  
Director



**Final Title V Permit**  
Mahoning Landfill, Inc.  
**Permit Number:** P0115893  
**Facility ID:** 0250000840  
**Effective Date:** 8/23/2016

## **A. Standard Terms and Conditions**

**1. Federally Enforceable Standard Terms and Conditions**

- a) All Standard Terms and Conditions are federally enforceable, with the exception of those listed below which are enforceable under State law only:
- (1) Standard Term and Condition A. 24., Reporting Requirements Related to Monitoring and Record Keeping Requirements of State-Only Enforceable Permit Terms and Conditions
  - (2) Standard Term and Condition A. 25., Records Retention Requirements for State-Only Enforceable Permit Terms and Conditions
  - (3) Standard Term and Condition A. 27., Scheduled Maintenance/Malfunction Reporting For State-Only Requirements
  - (4) Standard Term and Condition A. 29., Additional Reporting Requirements When There Are No Deviations of Federally Enforceable Emission Limitations, Operational Restrictions, or Control Device Operating Parameter Limitations
  - (5) Standard Term and Condition A. 30.

*(Authority for term: ORC 3704.036(A))*

**2. Monitoring and Related Record Keeping and Reporting Requirements**

- a) Except as may otherwise be provided in the terms and conditions for a specific emissions unit (i.e., in section C. Emissions Unit Terms and Conditions of this Title V permit), the permittee shall maintain records that include the following, where applicable, for any required monitoring under this permit:
- (1) The date, place (as defined in the permit), and time of sampling or measurements.
  - (2) The date(s) analyses were performed.
  - (3) The company or entity that performed the analyses.
  - (4) The analytical techniques or methods used.
  - (5) The results of such analyses.
  - (6) The operating conditions existing at the time of sampling or measurement.

*(Authority for term: OAC rule 3745-77-07(A)(3)(b)(i))*

- b) Each record of any monitoring data, testing data, and support information required pursuant to this permit shall be retained for a period of five years from the date the record was created. Support information shall include all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by this permit. Such records may be maintained in computerized form.

*(Authority for term: OAC rule 3745-77-07(A)(3)(b)(ii))*

c) The permittee shall submit required reports in the following manner:

- (1) All reporting required in accordance with OAC rule 3745-77-07(A)(3)(c) for deviations caused by malfunctions shall be submitted in the following manner:

Any malfunction, as defined in OAC rule 3745-15-06(B)(1), shall be promptly reported to the Ohio EPA in accordance with OAC rule 3745-15-06. In addition, to fulfill the OAC rule 3745-77-07(A)(3)(c) deviation reporting requirements for malfunctions, written reports that identify each malfunction that occurred during each calendar quarter (including each malfunction reported only verbally in accordance with OAC rule 3745-15-06) shall be submitted by January 31, April 30, July 31, and October 31 of each year in accordance with Standard Term and Condition A.2.c)(2) below; and each report shall cover the previous calendar quarter. An exceedance of the visible emission limitations specified in OAC rule 3745-17-07(A)(1) that is caused by a malfunction is not a violation and does not need to be reported as a deviation if the owner or operator of the affected air contaminant source or air pollution control equipment complies with the requirements of OAC rule 3745-17-07(A)(3)(c).

In accordance with OAC rule 3745-15-06, a malfunction reportable under OAC rule 3745-15-06(B) is a deviation of the federally enforceable permit requirements. Even though verbal notifications and written reports are required for malfunctions pursuant to OAC rule 3745-15-06, the written reports required pursuant to this term must be submitted quarterly to satisfy the prompt reporting provision of OAC rule 3745-77-07(A)(3)(c).

In identifying each deviation caused by a malfunction, the permittee shall specify the emission limitation(s) (or control requirement(s)) for which the deviation occurred, describe each deviation, and provide the magnitude and duration of each deviation. For a specific malfunction, if this information has been provided in a written report that was submitted in accordance with OAC rule 3745-15-06, the permittee may simply reference that written report to identify the deviation. Nevertheless, all malfunctions, including those reported only verbally in accordance with OAC rule 3745-15-06, must be reported in writing on a quarterly basis.

Any submitted scheduled maintenance requests, as referenced in OAC rule 3745-15-06(A)(1), that results in a deviation from a federally enforceable emission limitation (or control requirement) shall be reported in the same manner as described above for malfunctions.

*(Authority for term: OAC rule 3745-77-07(A)(3)(c))*

- (2) Except as may otherwise be provided in the terms and conditions for a specific emissions unit (i.e., in section C. Emissions Unit Terms and Conditions of this Title V permit or, in some cases, in section B. Facility-Wide Terms and Conditions of this Title V permit), all reporting required in accordance with OAC rule 3745-77-07(A)(3)(c) for deviations of the emission limitations, operational restrictions, and control device operating parameter limitations shall be submitted in the following manner:

Written reports of (a) any deviations from federally enforceable emission limitations, operational restrictions, and control device operating parameter limitations, (b) the

probable cause of such deviations, and (c) any corrective actions or preventive measures taken, shall be submitted promptly to the Ohio EPA DAPC, Northeast District Office. Except as provided below, the written reports shall be submitted by January 31, April 30, July 31, and October 31 of each year; and each report shall cover the previous calendar quarter.

In identifying each deviation, the permittee shall specify the emission limitation(s), operational restriction(s), and/or control device operating parameter limitation(s) for which the deviation occurred, describe each deviation, and provide the estimated magnitude and duration of each deviation.

These written deviation reports shall satisfy the requirements of OAC rule 3745-77-07(A)(3)(c) pertaining to the submission of monitoring reports every six months and to the prompt reporting of all deviations. Full compliance with OAC rule 3745-77-07(A)(3)(c) requires reporting of all other deviations of the federally enforceable requirements specified in the permit as required by such rule.

If an emissions unit has a deviation reporting requirement for a specific emission limitation, operational restriction, or control device operating parameter limitation that is not on a quarterly basis (e.g., within 30 days following the end of the calendar month, or within 30 or 45 days after the exceedance occurs), that deviation reporting requirement satisfies the reporting requirements specified in this Standard Term and Condition for that specific emission limitation, operational restriction, or control device parameter limitation. Following the provisions of that non-quarterly deviation reporting requirement will also satisfy (for the deviations so reported) the requirements of OAC rule 3745-77-07(A)(3)(c) pertaining to the submission of monitoring reports every six months and to the prompt reporting of all deviations, and additional quarterly deviation reports for that specific emission limitation, operational restriction, or control device parameter limitation are not required pursuant to this Standard Term and Condition.

See A.29 below if no deviations occurred during the quarter.

*(Authority for term: OAC rule 3745-77-07(A)(3)(c))*

- (3) All reporting required in accordance with the OAC rule 3745-77-07(A)(3)(c) for other deviations of the federally enforceable permit requirements which are not reported in accordance with Standard Term and Condition A.2)c)(2) above shall be submitted in the following manner:

Unless otherwise specified by rule, written reports that identify deviations of the following federally enforceable requirements contained in this permit; Standard Terms and Conditions: A.3, A.4, A.5, A.7.e), A.8, A.13, A.15, A.19, A.20, A.21, and A.23 of this Title V permit, as well as any deviations from the requirements in section C. Emissions Unit Terms and Conditions of this Title V permit, and any monitoring, record keeping, and reporting requirements, which are not reported in accordance with Standard Term and Condition A.2.c)(2) above shall be submitted to the Ohio EPA DAPC, Northeast District Office by January 31 and July 31 of each year; and each report shall cover the previous six calendar months. Unless otherwise specified by rule, all other deviations from federally enforceable requirements identified in this permit shall be submitted annually as part of the annual compliance certification, including deviations of federally

enforceable requirements not specifically addressed by permit or rule for the insignificant activities or emissions levels (IEU) identified in section B. Facility-Wide Terms and Conditions of this Title V permit. Annual reporting of deviations is deemed adequate to meet the deviation reporting requirements for IEUs unless otherwise specified by permit or rule.

In identifying each deviation, the permittee shall specify the federally enforceable requirement for which the deviation occurred, describe each deviation, and provide the magnitude and duration of each deviation.

These semi-annual and annual written reports shall satisfy the reporting requirements of OAC rule 3745-77-07(A)(3)(c) for any deviations from the federally enforceable requirements contained in this permit that are not reported in accordance with Standard Term and Condition A.2.c)(2) above.

If no such deviations occurred during a six-month period, the permittee shall submit a semi-annual report which states that no such deviations occurred during that period.

*(Authority for term: OAC rules 3745-77-07(A)(3)(c)(i) and (ii) and OAC rule 3745-77-07(A)(13)(b))*

- (4) Each written report shall be signed by a Responsible Official certifying that, "based on information and belief formed after reasonable inquiry, the statements and information in the report (including any written malfunction reports required by OAC rule 3745-15-06 that are referenced in the deviation reports) are true, accurate, and complete." Signature by the Responsible Official may be represented by entry of the personal identification number (PIN) by the Responsible Official as part of the electronic submission process or by the scanned attestation document signed by the Responsible Official that is attached to the electronically submitted written report.

*(Authority for term: OAC rule 3745-77-07(A)(3)(c)(iv))*

- (5) Consistent with A.2.c.1. above, reports of any required monitoring and/or record keeping information required to be submitted to Ohio EPA shall be submitted to Ohio EPA DAPC, Northeast District Office unless otherwise specified.

*(Authority for term: OAC rule 3745-77-07(A)(3)(c))*

### **3. Reporting of Any Exceedence of a Federally Enforceable Emission Limitation or Control Requirement Resulting From Scheduled Maintenance**

Any scheduled maintenance of air pollution control equipment shall be performed in accordance with paragraph (A) of OAC rule 3745-15-06. Except as provided in OAC rule 3745-15-06(A)(3), any scheduled maintenance necessitating the shutdown or bypassing of any air pollution control system(s) shall be accompanied by the shutdown of the emissions unit(s) that is (are) served by such control system(s). Any scheduled maintenance, as defined in OAC rule 3745-15-06(A)(1), that results in a deviation from a federally enforceable emission limitation (or control requirement) shall be reported in the same manner as described for malfunctions in Standard Term and Condition A.2.c)(1) above.

*(Authority for term: OAC rule 3745-77-07(A)(3)(c))*

#### **4. Risk Management Plans**

If applicable, the permittee shall develop and register a risk management plan pursuant to section 112(r) of the Clean Air Act, as amended, 42 U.S.C. § 7401 et seq. ("Act"); and, pursuant to 40 C.F.R. 68.215(a), the permittee shall submit either of the following:

- a) a compliance plan for meeting the requirements of 40 C.F.R. Part 68 by the date specified in 40 C.F.R. 68.10(a) and OAC 3745-104-05(A); or
- b) as part of the compliance certification submitted under 40 C.F.R. 70.6(c)(5), a certification statement that the source is in compliance with all requirements of 40 C.F.R. Part 68 and OAC Chapter 3745-104, including the registration and submission of the risk management plan.

*(Authority for term: OAC rule 3745-77-07(A)(4))*

#### **5. Title IV Provisions**

If the permittee is subject to the requirements of 40 CFR Part 72 concerning acid rain, the permittee shall ensure that any affected emissions unit complies with those requirements. Emissions exceeding any allowances that are lawfully held under Title IV of the Act, or any regulations adopted thereunder, are prohibited.

*(Authority for term: OAC rule 3745-77-07(A)(5))*

#### **6. Severability Clause**

A determination that any term or condition of this permit is invalid shall not invalidate the force or effect of any other term or condition thereof, except to the extent that any other term or condition depends in whole or in part for its operation or implementation upon the term or condition declared invalid.

*(Authority for term: OAC rule 3745-77-07(A)(6))*

#### **7. General Requirements**

- a) Any noncompliance with the federally enforceable terms and conditions of this permit constitutes a violation of the Act, and is grounds for enforcement action or for permit revocation, revocation and reissuance, or modification, or for denial of a permit renewal application.
- b) It shall not be a defense for the permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the federally enforceable terms and conditions of this permit except as provided pursuant to A.16 below.
- c) This permit may be modified, reopened, revoked, or revoked and reissued, for cause, in accordance with A.11 below. The filing of a request by the permittee for a permit modification, revocation and reissuance, or revocation, or of a notification of planned changes or anticipated noncompliance does not stay any term and condition of this permit.
- d) This permit does not convey any property rights of any sort, or any exclusive privilege.

- e) The permittee shall furnish to the Director of the Ohio EPA, or an authorized representative of the Director, upon receipt of a written request and within a reasonable time, any information that may be requested to determine whether cause exists for modifying, reopening or revoking this permit or to determine compliance with this permit. Upon request, the permittee shall also furnish to the Director or an authorized representative of the Director, copies of records required to be kept by this permit. For information claimed to be confidential in the submittal to the Director, if the Administrator of the U.S. EPA requests such information, the permittee may furnish such records directly to the Administrator along with a claim of confidentiality.
- f) Except as otherwise indicated below, this Title V permit, or permit modification, is effective for five years from the original effective date specified in the permit. In the event that this facility becomes eligible for non-title V permits, this permit shall cease to be enforceable when:
- (1) the permittee submits an approved facility-wide potential to emit analysis supporting a claim that the facility no longer meets the definition of a "major source" as defined in OAC rule 3745-77-01(W) based on the permanent shutdown and removal of one or more emissions units identified in this permit; or
  - (2) the permittee no longer meets the definition of a "major source" as defined in OAC rule 3745-77-01(W) based on obtaining restrictions on the facility-wide potential(s) to emit that are federally enforceable or legally and practically enforceable ; or
  - (3) a combination of (1) and (2) above.

The permittee shall continue to comply with all applicable OAC Chapter 3745-31 requirements for all regulated air contaminant sources once this permit ceases to be enforceable. The permittee shall comply with any residual requirements, such as quarterly deviation reports, semi-annual deviation reports, and annual compliance certifications covering the period during which this Title V permit was enforceable. All records relating to this permit must be maintained in accordance with law.

*(Authority for term: OAC rule 3745-77-01(W), OAC rule 3745-77-07(A)(3)(b)(ii), OAC rule 3745-77(A)(7))*

## **8. Fees**

The permittee shall pay fees to the Director of the Ohio EPA in accordance with ORC section 3745.11 and OAC Chapter 3745-78.

*(Authority for term: OAC rule 3745-77-07(A)(8))*

## **9. Marketable Permit Programs**

No revision of this permit is required under any approved economic incentive, marketable permits, emissions trading, and other similar programs or processes for changes that are provided for in this permit.

*(Authority for term: OAC rule 3745-77-07(A)(9))*

**10. Reasonably Anticipated Operating Scenarios**

The permittee is hereby authorized to make changes among operating scenarios authorized in this permit without notice to the Ohio EPA, but, contemporaneous with making a change from one operating scenario to another, the permittee must record in a log at the permitted facility the scenario under which the permittee is operating. The permit shield provided in these standard terms and conditions shall apply to all operating scenarios authorized in this permit.

*(Authority for term: OAC rule 3745-77-07(A)(10))*

**11. Reopening for Cause**

This Title V permit will be reopened prior to its expiration date under the following conditions:

- a) Additional applicable requirements under the Act become applicable to one or more emissions units covered by this permit, and this permit has a remaining term of three or more years. Such a reopening shall be completed not later than eighteen (18) months after promulgation of the applicable requirement. No such reopening is required if the effective date of the requirement is later than the date on which the permit is due to expire, unless the original permit or any of its terms and conditions has been extended pursuant to paragraph (E)(1) of OAC rule 3745-77-08.
- b) This permit is issued to an affected source under the acid rain program and additional requirements (including excess emissions requirements) become applicable. Upon approval by the Administrator, excess emissions offset plans shall be deemed to be incorporated into the permit, and shall not require a reopening of this permit.
- c) The Director of the Ohio EPA or the Administrator of the U.S. EPA determines that the federally applicable requirements in this permit are based on a material mistake, or that inaccurate statements were made in establishing the emissions standards or other terms and conditions of this permit related to such federally applicable requirements.
- d) The Administrator of the U.S. EPA or the Director of the Ohio EPA determines that this permit must be revised or revoked to assure compliance with the applicable requirements.

*(Authority for term: OAC rules 3745-77-07(A)(12) and 3745-77-08(D))*

**12. Federal and State Enforceability**

Only those terms and conditions designated in this permit as federally enforceable, that are required under the Act, or any of its applicable requirements, including relevant provisions designed to limit the potential to emit of a source, are enforceable by the Administrator of the U.S. EPA, the State, and citizens under the Act. All other terms and conditions of this permit shall not be federally enforceable and shall be enforceable under State law only.

*(Authority for term: OAC rule 3745-77-07(B))*

**13. Compliance Requirements**

- a) Any document (including reports) required to be submitted and required by a federally applicable requirement in this Title V permit shall include a certification by a Responsible

Official that, based on information and belief formed after reasonable inquiry, the statements in the document are true, accurate, and complete.

- b) Upon presentation of credentials and other documents as may be required by law, the permittee shall allow the Director of the Ohio EPA or an authorized representative of the Director to:
- (1) At reasonable times, enter upon the permittee's premises where a source is located or the emissions-related activity is conducted, or where records must be kept under the conditions of this permit.
  - (2) Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit, subject to the protection from disclosure to the public of confidential information consistent with paragraph (E) of OAC rule 3745-77-03.
  - (3) Inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit.
  - (4) As authorized by the Act, sample or monitor at reasonable times substances or parameters for the purpose of assuring compliance with the permit and applicable requirements.
- c) The permittee shall submit progress reports to the Ohio EPA DAPC, Northeast District Office concerning any schedule of compliance for meeting an applicable requirement. Progress reports shall be submitted semiannually or more frequently if specified in the applicable requirement or by the Director of the Ohio EPA. Progress reports shall contain the following:
- (1) Dates for achieving the activities, milestones, or compliance required in any schedule of compliance, and dates when such activities, milestones, or compliance were achieved.
  - (2) An explanation of why any dates in any schedule of compliance were not or will not be met, and any preventive or corrective measures adopted.
- d) Compliance certifications concerning the terms and conditions contained in this permit that are federally enforceable emission limitations, standards, or work practices, shall be submitted to the Director (the Ohio EPA DAPC, Northeast District Office) and the Administrator of the U.S. EPA in the following manner and with the following content:
- (1) Compliance certifications shall be submitted annually on a calendar year basis. The annual certification shall be submitted on or before April 30th of each year during the permit term.
  - (2) Compliance certifications shall include the following:
    - a. Identification of each term or condition that is the basis of the certification. The identification may include a statement by the Responsible Official that every term and condition that is federally enforceable has been reviewed, and such terms and conditions with which there has been continuous compliance throughout the year are not separately identified.
    - b. The permittee's current compliance status.

- c. Whether compliance was continuous or intermittent consistent with A.13.d.2.a above.
  - d. The method(s) used for determining the compliance status of the source currently and over the required reporting period consistent with A.13.d.2.a above.
  - e. Such other facts as the Director of the Ohio EPA may require in the permit to determine the compliance status of the source.
- (3) Compliance certifications shall contain such additional requirements as may be specified pursuant to sections 114(a)(3) and 504(b) of the Act.

*(Authority for term: OAC rules 3745-77-07(C)(1),(2),(4) and (5) and ORC section 3704.03(L))*

#### **14. Permit Shield**

- a) Compliance with the terms and conditions of this permit (including terms and conditions established for alternate operating scenarios, emissions trading, and emissions averaging, but excluding terms and conditions for which the permit shield is expressly prohibited under OAC rule 3745-77-07) shall be deemed compliance with the applicable requirements identified and addressed in this permit as of the date of permit issuance.
- b) This permit shield provision shall apply to any requirement identified in this permit pursuant to OAC rule 3745-77-07(F)(2), as a requirement that does not apply to the source or to one or more emissions units within the source.

*(Authority for term: OAC rule 3745-77-07(F))*

#### **15. Operational Flexibility**

The permittee is authorized to make the changes identified in OAC rule 3745-77-07(H)(1)(a) to (H)(1)(c) within the permitted stationary source without obtaining a permit revision, if such change is not a modification under any provision of Title I of the Act [as defined in OAC rule 3745-77-01(JJ)], and does not result in an exceedance of the emissions allowed under this permit (whether expressed therein as a rate of emissions or in terms of total emissions), and the permittee provides the Administrator of the U.S. EPA and the Ohio EPA DAPC, Northeast District Office with written notification within a minimum of seven days in advance of the proposed changes, unless the change is associated with, or in response to, emergency conditions. If less than seven days notice is provided because of a need to respond more quickly to such emergency conditions, the permittee shall provide notice to the Administrator of the U.S. EPA and the Ohio EPA DAPC, Northeast District Office as soon as possible after learning of the need to make the change. The notification shall contain the items required under OAC rule 3745-77-07(H)(2)(d).

*(Authority for term: OAC rules 3745-77-07(H)(1) and (2))*

## **16. Emergencies**

The permittee shall have an affirmative defense of emergency to an action brought for noncompliance with technology-based emission limitations if the conditions of OAC rule 3745-77-07(G)(3) are met. This emergency defense provision is in addition to any emergency or upset provision contained in any applicable requirement.

*(Authority for term: OAC rule 3745-77-07(G))*

## **17. Off-Permit Changes**

The owner or operator of a Title V source may make any change in its operations or emissions at the source that is not specifically addressed or prohibited in the Title V permit, without obtaining an amendment or modification of the permit, provided that the following conditions are met:

- a) The change does not result in conditions that violate any applicable requirements or that violate any existing federally enforceable permit term or condition.
- b) The permittee provides contemporaneous written notice of the change to the Director and the Administrator of the U.S. EPA, except that no such notice shall be required for changes that qualify as insignificant emissions levels or activities as defined in OAC rule 3745-77-01(U). Such written notice shall describe each such change, the date of such change, any change in emissions or pollutants emitted, and any federally applicable requirement that would apply as a result of the change.
- c) The change shall not qualify for the permit shield under OAC rule 3745-77-07(F).
- d) The permittee shall keep a record describing all changes made at the source that result in emissions of a regulated air pollutant subject to an applicable requirement, but not otherwise regulated under the permit, and the emissions resulting from those changes.
- e) The change is not subject to any applicable requirement under Title IV of the Act or is not a modification under any provision of Title I of the Act.

Paragraph (I) of rule 3745-77-07 of the Administrative Code applies only to modification or amendment of the permittee's Title V permit. The change made may require a permit-to-install under Chapter 3745-31 of the Administrative Code if the change constitutes a modification as defined in that Chapter. Nothing in paragraph (I) of rule 3745-77-07 of the Administrative Code shall affect any applicable obligation under Chapter 3745-31 of the Administrative Code.

*(Authority for term: OAC rule 3745-77-07(I))*

## **18. Compliance Method Requirements**

Nothing in this permit shall alter or affect the ability of any person to establish compliance with, or a violation of, any applicable requirement through the use of credible evidence to the extent authorized by law. Nothing in this permit shall be construed to waive any defenses otherwise available to the permittee, including but not limited to, any challenge to the Credible Evidence Rule (see 62 Federal Register 8314, Feb. 24, 1997), in the context of any future proceeding.

*(This term is provided for informational purposes only.)*

**19. Insignificant Activities or Emissions Levels**

Each IEU that is subject to one or more applicable requirements shall comply with those applicable requirements.

*(Authority for term: OAC rule 3745-77-07(A)(1))*

**20. Permit to Install Requirement**

Prior to the "installation" or "modification" of any "air contaminant source," as those terms are defined in OAC rule 3745-31-01, a permit to install must be obtained from the Ohio EPA pursuant to OAC Chapter 3745-31.

*(Authority for term: OAC rule 3745-77-07(A)(1))*

**21. Air Pollution Nuisance**

The air contaminants emitted by the emissions units covered by this permit shall not cause a public nuisance, in violation of OAC rule 3745-15-07.

*(Authority for term: OAC rule 3745-77-07(A)(1))*

**22. Permanent Shutdown of an Emissions Unit**

The permittee may notify Ohio EPA of any emissions unit that is permanently shut down by submitting a certification from the Responsible Official that identifies the date on which the emissions unit was permanently shut down. Authorization to operate the affected emissions unit shall cease upon the date certified by the Responsible Official that the emissions unit was permanently shut down.

After the date on which an emissions unit is permanently shut down (i.e., that 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 and therefore ceases to meet the definition of an "emissions unit" as defined in OAC rule 3745-77-01(O)), rendering existing permit terms and conditions irrelevant, the permittee shall not be required, after the date of the certification and submission to Ohio EPA, to meet any Title V permit requirements applicable to that emissions unit, except for any residual requirements, such as the quarterly deviation reports, semi-annual deviation reports and annual compliance certification covering the period during which the emissions unit last operated. All records relating to the shutdown emissions unit, generated while the emissions unit was in operation, must be maintained in accordance with law.

Unless otherwise exempted, no emissions unit identified in this permit that has been certified by the Responsible Official as being permanently shut down may resume operation without first applying for and obtaining a permit to install pursuant to OAC Chapter 3745-31.

*(Authority for term: OAC rule 3745-77-01)*

**23. Title VI Provisions**

If applicable, the permittee shall comply with the standards for recycling and reducing emissions of ozone depleting substances pursuant to 40 CFR Part 82, Subpart F, except as provided for motor vehicle air conditioners in Subpart B of 40 CFR Part 82:

- a) Persons operating appliances for maintenance, service, repair, or disposal must comply with the required practices specified in 40 CFR 82.156.
- b) Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment specified in 40 CFR 82.158.
- c) Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to 40 CFR 82.161.

*(Authority for term: OAC rule 3745-77-01(H)(11))*

#### **24. Reporting Requirements Related to Monitoring and Record Keeping Requirements Under State Law Only**

The permittee shall submit required reports in the following manner:

- a) Reports of any required monitoring and/or record keeping information shall be submitted to the Ohio EPA DAPC, Northeast District Office.
- b) Except as otherwise may be provided in the terms and conditions for a specific emissions unit, quarterly written reports of (i) any deviations (excursions) from emission limitations, operational restrictions, and control device operating parameter limitations that have been detected by the testing, monitoring, and record keeping requirements specified in this permit, (ii) the probable cause of such deviations, and (iii) any corrective actions or preventive measures which have been or will be taken, shall be submitted to the Ohio EPA DAPC, Northeast District Office. In identifying each deviation, the permittee shall specify the applicable requirement for which the deviation occurred, describe each deviation, and provide the magnitude and duration of each deviation. If no deviations occurred during a calendar quarter, the permittee shall submit a quarterly report, which states that no deviations occurred during that quarter. The reports shall be submitted quarterly, by January 31, April 30, July 31, and October 31 of each year and shall cover the previous calendar quarters. (These quarterly reports shall exclude deviations resulting from malfunctions reported in accordance with OAC rule 3745-15-06.)

#### **25. Records Retention Requirements Under State Law Only**

Each record of any monitoring data, testing data, and support information required pursuant to this permit shall be retained for a period of five years from the date the record was created. Support information shall include, but not be limited to, all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by this permit. Such records may be maintained in computerized form.

#### **26. Inspections and Information Requests**

The Director of the Ohio EPA, or an authorized representative of the Director, may, subject to the safety requirements of the permittee and without undue delay, enter upon the premises of this source at any reasonable time for purposes of making inspections, conducting tests, examining records or reports pertaining to any emission of air contaminants, and determining compliance with any applicable State air pollution laws and regulations and the terms and conditions of this permit. The permittee shall furnish to the Director of the Ohio EPA, or an authorized representative of the Director, upon receipt of a written request and within a reasonable time, any information that may be requested to determine

whether cause exists for modifying, reopening or revoking this permit or to determine compliance with this permit. Upon verbal or written request, the permittee shall also furnish to the Director of the Ohio EPA, or an authorized representative of the Director, copies of records required to be kept by this permit.

*(Authority for term: OAC rule 3745-77-07(C))*

**27. Scheduled Maintenance/Malfunction Reporting For State-Only Requirements**

Any scheduled maintenance of air pollution control equipment shall be performed in accordance with paragraph (A) of OAC rule 3745-15-06. The malfunction of any emissions units or any associated air pollution control system(s) shall be reported to the Ohio EPA DAPC, Northeast District Office in accordance with paragraph (B) of OAC rule 3745-15-06. Except as provided in that rule, any scheduled maintenance or malfunction necessitating the shutdown or bypassing of any air pollution control system(s) shall be accompanied by the shutdown of the emissions unit(s) that is (are) served by such control system(s).

**28. Permit Transfers**

Any transferee of this permit shall assume the responsibilities of the prior permit holder. The Ohio EPA DAPC, Northeast District Office must be notified in writing of any transfer of this permit.

*(Authority for term: OAC rule 3745-77-01(C))*

**29. Additional Reporting Requirements When There Are No Deviations of Federally Enforceable Emission Limitations, Operational Restrictions, or Control Device Operating Parameter Limitations**

If no emission limitation (or control requirement), operational restriction and/or control device parameter limitation deviations occurred during a calendar quarter, the permittee shall submit a quarterly report, which states that no deviations occurred during that quarter. The reports shall be submitted by January 31, April 30, July 31, and October 31 of each year; and each report shall cover the previous calendar quarter.

The permittee is not required to submit a quarterly report which states that no deviations occurred during that quarter for the following situations:

- a) where an emissions unit has deviation reporting requirements for a specific emission limitation, operational restriction, or control device parameter limitation that override the deviation reporting requirements specified in Standard Term and Condition A.2.c)(2); or
- b) where an uncontrolled emissions unit has no monitoring, record keeping, or reporting requirements and the emissions unit's applicable emission limitations are established at the potential to emit; or
- c) where the company's Responsible Official has certified that an emissions unit has been permanently shut down.

**30. Submitting Documents Required by this Permit**

All applications, notifications or reports required by terms and conditions in this permit to be submitted or "reported in writing" are to be submitted to Ohio EPA through the Ohio EPA's eBusiness Center: Air Services web service ("Air Services"). Ohio EPA will accept hard copy submittals on an as-needed basis if the permittee cannot submit the required documents through the Ohio EPA eBusiness Center. In the event of an alternative hard copy submission in lieu of the eBusiness Center, the post-marked date or the date the document is delivered in person will be recognized as the date submitted. Electronic submission of applications, notifications, or reports required to be submitted to Ohio EPA fulfills the requirement to submit the required information to the Director, the Ohio EPA DAPC, Northeast District Office, and/or any other individual or organization specifically identified as an additional recipient identified in this permit unless otherwise specified. Consistent with OAC rule 3745-15-03, the required application, notification or report is considered to be "submitted" on the date the submission is successful using a valid electronic signature. Signature by the Responsible Official may be represented as provided through procedures established in Air Services.



**Final Title V Permit**  
Mahoning Landfill, Inc.  
**Permit Number:** P0115893  
**Facility ID:** 0250000840  
**Effective Date:** 8/23/2016

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

1. All the following facility-wide terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only:

- a) None.

2. The following emissions unit contained in this permit is subject to 40 CFR Part 60, Subpart WWW, Standards of Performance for New Stationary Sources for Municipal Solid Waste Landfills: F002. The complete NSPS requirements, including the Subpart A General Provisions, may be accessed via the internet from the Electronic Code of Federal Regulations (e-CFR) website at <http://www.ecfr.gov> or by contacting the Ohio EPA Northeast District Office.

The permittee must comply with all applicable requirements of 40 CFR Part 60, Subpart WWW. The permittee shall also comply with all applicable requirements of 40 CFR Part 60, Subpart A (General Provisions). Compliance with all applicable requirements shall be achieved by the dates set forth in 40 CFR Part 60, Subpart WWW, and Subpart A.

3. The following emissions unit contained in this permit is subject to 40 CFR Part 63, Subpart AAAA, National Emissions Standards for Hazardous Air Pollutants (NESHAP) for Municipal Solid Waste Landfills: F002. The complete NESHAP requirements, including the Subpart A General Provisions, may be accessed via the internet from the Electronic Code of Federal Regulations (e-CFR) website at <http://www.ecfr.gov> or by contacting the Ohio EPA Northeast District Office.

The permittee must comply with all applicable requirements of 40 CFR Part 63, Subpart AAAA. The permittee shall also comply with all applicable requirements of 40 CFR Part 63, Subpart A (General Provisions) as identified in Table 1 of 40 CFR Part 63, Subpart AAAA. Compliance with all applicable requirements shall be achieved by the dates set forth in 40 CFR Part 63, Subpart A, and Subpart A.

4. The following emissions units contained in this permit are subject to 40 CFR Part 60, Subpart JJJJ. Standards of Performance for New Stationary Spark Ignition Internal Combustion Engines: P001, P002, P003, P004, and P005. The complete NSPS requirements, including the Subpart A General Provisions, may be accessed via the internet from the Electronic Code of Federal Regulations (e-CFR) website at <http://www.ecfr.gov> or by contacting the Ohio EPA Northeast District Office.

The permittee must comply with all applicable requirements of 40 CFR Part 60, Subpart JJJJ. The permittee shall also comply with all applicable requirements of 40 CFR Part 60, Subpart A (General Provisions). Compliance with all applicable requirements shall be achieved by the dates set forth in 40 CFR Part 60, Subpart JJJJ, and Subpart A.

5. The following emissions units contained in this permit are subject to 40 CFR Part 63, Subpart ZZZZ, National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines: P001, P002, P003, P004, and P005. The complete NESHAP requirements, including the Subpart A General Provisions, may be accessed via the internet from the Electronic Code of Federal Regulations (e-CFR) website at <http://www.ecfr.gov> or by contacting the Ohio EPA Northeast District Office.

The permittee must comply with all applicable requirements of 40 CFR Part 63, Subpart ZZZZ. The permittee shall also comply with all the applicable requirements of 40 CFR Part 63, Subpart A (General Provisions) as identified in Table 8 of 40 CFR Part 63, Subpart ZZZZ. Compliance with all applicable requirements shall be achieved by the dates set forth in 40 CFR Part 63, Subpart ZZZZ and 40 CFR Part 63, Subpart A.

- 6. The maximum annual combustion of landfill gas (LFG) from the collection and control system to all control equipment (P001-P005 and 2100 cfm open-flare) shall not exceed 1,716,084 Mcf/yr (3,265 cfm x 60 min/hr x 8760 hrs/yr x Mcf/1000 cf) based upon a rolling, 12-month summation.
- 7. The following insignificant emissions units are located at this facility:

**EU ID      Operations, Property and/or Equipment Description**

G001      Fuel oil dispensing

- a) Each insignificant emissions unit at this facility must comply with all applicable State and Federal
- b) regulations, as well as any emissions limitations and/or control requirements contained within a permit-to-install for that emissions unit. Insignificant emissions units listed above that are not subject to specific
- c) permit-to-install requirements are subject to one or more applicable requirements contained in the
- d) federally-approved versions of OAC Chapters 3745-17 and/or 3745-21.

[Authority for term: OAC rule 3745-77-07(A)(13)]



**Final Title V Permit**  
Mahoning Landfill, Inc.  
**Permit Number:** P0115893  
**Facility ID:** 0250000840  
**Effective Date:** 8/23/2016

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

**1. F001, Roadways and parking areas**

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

Facility roadways and parking areas.

a) The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

(1) 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.	ORC 3704.03(T) (P0117031)	Fugitive particulate emissions shall not exceed 155.26 tons per year. There shall be no visible particulate emissions of fugitive dust from any unpaved roadway or parking area surface except for a time not to exceed 3 minutes during any 60-minute observation period.  There shall be no visible particulate emissions of fugitive dust from any paved roadway or parking area surface except for a time not to exceed 1 minute during any 60-minute observation period.  See b)(2)a through b)(2)f.
b.	OAC rule 3745-17-07(B)	This emissions unit is exempt from the visible particulate emission limitations specified in OAC rule 3745-17-07(B) pursuant to OAC rule 3745-17-07(B)(11)(e).
c.	OAC rule 3745-17-08(B)	The permittee is not located within an "Appendix A" area as identified in OAC rule 3745-17-08. Therefore, pursuant to OAC rule 3745-17-08(A), this emissions unit is exempt from the requirements of OAC rule 3745-17-08(B).

(2) Additional Terms and Conditions

- a. 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 with water via a spray truck at sufficient treatment frequencies and to maintain and enforce speed limits sufficient to ensure compliance with the visible emissions limitations of this permit.

Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.

- b. 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 or unpaved 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.
- c. 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.
- d. 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.
- e. Any unpaved roadway or parking area, which during the term of this permit is paved or takes the characteristics of a paved surface resulting from the application of certain types of dust suppressants, may be controlled with the control measure(s) specified above for paved surfaces. Any unpaved roadway or parking area that takes the characteristics of a paved roadway or parking area due to the application of certain types of dust suppressants shall remain subject to the visible emission limitation for unpaved roadways and parking areas. Any unpaved roadway or parking area that is paved shall be subject to the visible emission limitation for paved roadways and parking areas.
- f. 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 (BAT) requirements of OAC rule 3745-31-05.

c) Operational Restrictions

- (1) The permittee shall post speed limit signs identifying the maximum on-site speed limit on facility roadways.

[Authority for term: OAC rule 3745-77-07(A)(1) and P0117031]

d) Monitoring and/or Recordkeeping Requirements

- (1) Except as otherwise provided in this section, the permittee shall perform inspections of the paved and unpaved roadways and parking areas once per day of operation.

[Authority for term: OAC rule 3745-77-07(C)(1) and P0117031]

- (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.

[Authority for term: OAC rule 3745-77-07(C)(1) and P0117031]

- (3) The permittee may, upon receipt of written approval from the Northeast District Office of Ohio EPA, modify the above-mentioned inspection frequencies, if operating experience indicates that less frequent inspections would be sufficient to ensure compliance with the above-mentioned applicable requirements.

[Authority for term: OAC rule 3745-77-07(C)(1) and P0117031]

- (4) 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)(4)d shall be kept separately for (i) the paved roadways and parking areas and (ii) the unpaved roadways and parking areas, and shall be updated on a calendar quarter basis within 30 days after the end of each calendar quarter.

[Authority for term: OAC rule 3745-77-07(C)(1) and P0117031]

e) Reporting Requirements

- (1) Unless other arrangements have been approved by the Director, all notifications and reports shall be submitted through the Ohio EPA's eBusiness Center: Air Services online web portal.

[Authority for term: OAC rule 3745-77-07(C)(1) and P0117031]

- (2) The permittee shall submit deviation reports that identify any of the following occurrences:

- a. each day during which an inspection was not performed by the required frequency, excluding an inspection which was not performed due to an exemption for snow and/or ice cover or precipitation; and
- b. each instance when a control measure, that was to be implemented as a result of an inspection, was not implemented.

[Authority for term: OAC rule 3745-77-07(C)(1) and P0117031]

f) Testing Requirements

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

a. Emission Limitation:

There shall be no visible particulate emissions of fugitive dust from any unpaved roadway or parking area surface except for a time not to exceed three (3) minutes during any 60-minute observation period.

Applicable Compliance Method:

If required, compliance with the emission limitation for unpaved roadways and parking areas 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"), and the modifications listed in paragraphs (B)(4)(a) through (B)(4)(d) of OAC rule 3745-17-03.

b. Emission Limitation:

There shall be no visible particulate emissions of fugitive dust from any paved roadway or parking area surface except for a time not to exceed one (1) minute during any 60-minute observation period.

Applicable Compliance Method:

If required, compliance with the emission limitation for paved roadways and parking areas 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"), and the modifications listed in paragraphs (B)(4)(a) through (B)(4)(d) of OAC rule 3745-17-03.

c. Emission Limitation:

Fugitive particulate emissions shall not exceed 155.26 tons per year.

Applicable Compliance Method:

Compliance with the fugitive PE limitation shall be determined by using the emission factor equations in sections 13.2.1 and 13.2.2, in Compilation of Air Pollutant Emission Factors, AP-42, Fifth Edition, Volume 1 (revised 1/11 and 11/06, respectively) for paved roadways and unpaved roadways, respectively. These emission limits are based on 16,359 Vehicular miles travelled per year (VMT/yr) on paved roadways by Waste Trucks with a 80% control efficiency; 13 VMT/yr on paved roadways by Triaxle Trucks with a control efficiency of 80%; 225,757 VMT/yr by Waste Trucks on unpaved roadways with a control efficiency of 75%; 182 VMT/yr by Triaxle Trucks on unpaved roadways with a 50% control efficiency; 5,320 VMT/yr by Soil Trucks making 10 trips a day on unpaved roadways with a control efficiency of 50% and 21,313 VMT/yr by Soil Trucks making 27 trips a day on unpaved roadways with a control efficiency of 75%.

[Authority for term: OAC rule 3745-77-07(C)(1) and P0117031]

g) Miscellaneous Requirements

(1) None.

**2. F002, Landfill operations**

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

Municipal Solid Waste (MSW) Landfill - operations - waste disposal activities including dumping, spreading, compacting, covering, and gas generation.

a) The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

(1) 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.	ORC 3704.03(T) (P0117031)	<p><b>Landfill Operations:</b></p> <p>Visible particulate emissions of fugitive dust (material transfer, aggregate handling, load-in/load-out operations and wind erosion) from this emissions unit shall not exceed 20% opacity as a 3-minute average.</p> <p>Fugitive particulate emissions shall not exceed 0.38 ton per year.</p> <p>Use of fugitive dust control measures at sufficient frequencies to comply with the above emission limitations.</p> <p>See b)(2)c.</p> <p><b>2100 cfm Open-Flare:</b></p> <p>Designed to meet 0.37 lb/mmBtu of CO emissions.</p> <p>Designed to meet 0.068 lb/mmBtu of NO<sub>x</sub> emissions.</p> <p>Sulfur dioxide (SO<sub>2</sub>) emissions, from the 2100 cfm open-flare, shall not exceed 18.6 tons per year.</p>

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
b.	OAC rule 3745-31-05(D) (P0117031)	<b>2100 cfm Open-Flare</b> See b)(2)g.
c.	OAC rule 3745-31-05(A)(3) June 30, 2008 (P0117031)	<b>2100 cfm Open-Flare</b> Particulate matter/particulate matter less than 10 microns in diameter (PM/PM <sub>10</sub> ) emissions, from the 2100 cfm open-flare, shall not exceed 4.69 tons per year. Hydrogen chloride (HCl) emissions, from the 2100 cfm open-flare, shall not exceed 2.23 tons per year. Non-methane organic compound (NMOC) emissions, from the 2100 cfm open-flare, shall not exceed 1.48 tons per year. See b)(2)a. below.
d.	OAC rule 3745-31-05(A)(3)(a)(ii) June 30, 2008	The Best Available Technology (BAT) requirements under OAC rule 3745-31-05(A)(3) do not apply to the PM/PM <sub>10</sub> , HCl, and NMOC emission from this air contaminant source since the potential to emit is less than 10 tons/yr. See b)(2)b. below.
e.	OAC rule 3745-17-07(B)	This emissions unit is exempt from the visible particulate emission limitations specified in OAC rule 3745-17-07(B) pursuant to OAC rule 3745-17-07(B)(11)(e).
f.	OAC rule 3745-17-08(B)	The permittee is not located within an "Appendix A" area as identified in OAC rule 3745-17-08. Therefore, pursuant to OAC rule 3745-17-08(A), this emissions unit is exempt from the requirements of OAC rule 3745-17-08(B).
g.	OAC Chapter 3745-19	See b)(2)d.

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
h.	40 CFR Part 60, Subpart WWW In accordance with 40 CFR 60.750(a), this emissions unit is a municipal solid waste landfill that commenced construction, reconstruction, or modification on or after May 30, 1991.	See b)(2)e.
i.	40 CFR Part 63, Subpart AAAA In accordance with 40 CFR 63.1935(a)(3), this emissions unit is an area source landfill that has a design capacity equal to or greater than 2.5 million megagrams (Mg) and 2.5 million cubic meter (m3) and had estimated uncontrolled emission equal to or greater than 50 megagrams per year (mg/yr) NMOC as calculated according to §60.754(a) of the MSW landfills new source performance standards in 40 CFR Part 60 Subpart WWW.	See b)(2)f.

(2) Additional Terms and Conditions

- a. The Best Available Technology (BAT) emission limit applies until U.S. EPA approved Ohio Administrative Code (OAC) paragraph 3745-31-05(A)(3)(a)(ii) (the less than 10 tons per year BAT exemption) into the Ohio State Implementation Plan (SIP).
- b. These requirements apply once U.S. EPA approves OAC paragraph 3745-31-05(A)(3)(a)(ii) (the less than 10 tons per year BAT exemption) as part of the Ohio SIP.
- c. Compliance with 40 CFR Part 60, Subpart WWW shall be sufficient to demonstrate compliance with the work practice standard to minimize fugitive landfill gas emissions.
- d. There shall be no open burning, in violation of OAC chapter 3745-19, at this facility.
- e. The complete NSPS requirements, including the General Provisions may be accessed via the internet from the Electronic Code of Federal Regulations (e-CFR) website <http://ecfr.gpoaccess.gov> or by contacting Ohio EPA, Northeast District Office, Division of Air Pollution Control. The applicable requirements are listed in c)(1), d)(1), e)(1) and f)(2) below.

60.752(b)(2)(i)	Collection and control system design plan requirements
60.752(b)(2)(ii)	Collection and control system installation requirements
60.752(b)(2)(iii)	Control device design and operating requirements
60.752(b)(2)(iv)	Operation of the gas collection and control system
60.752(b)(2)(v)	Provisions for capping or removing the GCCS
60.755(a)(6)	Approval by Administrator for non-conforming GCCS
60.755(b)	Timeline for placement of wells
60.759	Active collection system specifications

- f. The complete MACT requirements, including the MACT General Provisions may be accessed via the internet from the Electronic Code of Federal Regulations (e-CFR) website <http://ecfr.gpoaccess.gov> or by contacting Ohio EPA, Northeast District Office, Division of Air Pollution Control. The applicable requirements are listed in c)(2), d)(2), and e)(2) below.

63.1990	Definitions
63.1945	Compliance timeframe
63.1950	Termination of compliance requirements
63.1955(a)(1)	Compliance with 40 CFR 60, subpart WWW
63.1955(b)	Compliance standards for collection and control system
63.1955(c)	Approval by Administrator for non-conforming GCCS

- g. The maximum annual combustion of landfill gas (LFG) from the collection and control system to all control equipment (P001-P005 and 2100 cfm open-flare) shall not exceed 1,716,084 Mcf/yr (3,265 cfm x 60 min/hr x 8760 hrs/yr x Mcf/1000 cf) based upon a rolling, 12-month summation.

Based upon the above and the permit application, the facility has committed to applying for a permit to install additional control device capacity within 180 days of satisfying the following:

- i. the facility's captured landfill gas meets or exceeds 1,544,476 Mcf (90% of the allowable annual combustion limitation as set forth in this permit), and
  - ii. the collection system must be expanded in accordance with 40 CFR 60.753 and/or 60.755 and the newly collected landfill gas volume is anticipated to exceed the annual combustion limitation.
- h. Deposition and burial operations of any suspected non-regulated Category I or Category II asbestos-containing waste or demolition debris shall be conducted in a manner that prevents any asbestos-containing material from being broken up or dispersed before such materials are buried.
- i. The facility cannot accept for disposal any regulated asbestos-containing material as defined in the National Emission Standards for Hazardous Air Pollutants (NESHAP) for Asbestos, 40 CFR Part 61, Subpart M, Section 141 and OAC rule 3745-20, or any subsequent revisions to either rule. Regulated asbestos-containing material is defined to include:
- i. friable asbestos material;
  - ii. Category I nonfriable asbestos-containing material that has become friable;
  - iii. Category I nonfriable asbestos-containing material that will be or has been subjected to sanding, grinding, cutting, or abrading; or
  - iv. Category II nonfriable asbestos-containing material that has a high probability of becoming or has become crumbled, pulverized, or reduced to powder by the forces expected to act on the material in the course of demolition or renovation operations regulated by this subpart.
- j. The permittee shall be limited to accepting only non-regulated asbestos-containing waste materials. The permittee shall ensure that any non-regulated Category I or II nonfriable asbestos-containing waste materials accepted for disposal will not become friable during processing at the landfill; and asbestos-containing waste materials accepted for disposal do not become crumbled, pulverized, or reduced to powder by the forces expected to act on the material during its handling, transfer, and burial at the landfill. If any regulated Category II asbestos-containing waste material arrives at the landfill it cannot be accepted for disposal; and if any non-regulated asbestos-containing material becomes friable after it is accepted for disposal the permittee shall:
- i. not cause or permit visible emissions from the non-regulated Category I or II asbestos-containing waste materials during on-site transportation, transfer, deposition, or compacting operations;
  - ii. assure that deposition and burial operations are conducted in a manner which prevents handling by equipment or persons that causes the non-

regulated Category I or II asbestos-containing waste materials to be broken-up or dispersed before the materials are buried;

- iii. cover the non-regulated Category I or II asbestos-containing waste material with at least twelve inches of non-asbestos-containing material, as soon as practicable after deposition, but no later than at the end of the operating day; and
- iv. during the unloading, deposition, burial, and initial compaction of the non-regulated Category I or II asbestos-containing waste materials, assure that the disposal site is restricted adequately to deter unauthorized entry of the general public and any unauthorized personnel to within one hundred feet of the operations.

c) Operational Restrictions

- (1) The permittee shall comply with the applicable restrictions required under 40 CFR Part 60, Subpart WWW, including the following sections:

60.753(a)	Collection system installation requirement
60.753(b)	Collection system negative pressure requirements
60.753(c)	Wellhead operational standards
60.753(d)	Surface monitoring standards
60.753(e)	Collection or control system shutdown
60.753(f)	Operate control or treatment system
60.753(g)	Corrective action for operational parameters

[Authority for term: OAC rule 3745-77-07(A)(1), 40 CFR Part 60 Subpart WWW, and P0117031.]

- (2) The permittee shall comply with the applicable restrictions required under 40 CFR Part 63, Subpart AAAA, including the following sections:

63.1960	Compliance demonstration, deviations, SSM plan
63.1965	What constitutes a deviation

[Authority for term: OAC rule 3745-77-07(A)(1), 40 CFR Part 63 Subpart AAAA, and P0117031.]

- (3) The permittee shall ensure that solid wastes are deposited, spread, and compacted in such a manner as to minimize or prevent visible emissions of fugitive dust. The permittee shall require all truckloads of solid waste to be unloaded in a manner that will minimize the drop height of the solid wastes. Any dusty materials or wastes likely to become airborne shall be watered as necessary prior to or during dumping operations in order to minimize or eliminate visible emissions of fugitive dust. Watering shall be conducted in such a manner as to avoid the pooling of liquids and runoff. No dusty material shall be dumped during periods of high wind speed, unless the material has been treated to prevent fugitive dust emissions from becoming airborne.

[Authority for term: OAC rule 3745-77-07(A)(1) and P0117031]

- (4) The permittee shall employ best available control measures for the above-identified landfill fugitive dust operations/sources for the purpose of ensuring compliance with the above-mentioned applicable requirements. In accordance with the permit application, the permittee maintains that the inherent moisture content of the materials involved in fugitive dust operations/sources is at a level which is more than sufficient to comply with all applicable requirements. If at any time the moisture content is not sufficient to meet the above applicable requirements, the permittee shall employ best available control measures to ensure compliance.

[Authority for term: OAC rule 3745-77-07(A)(1) and P0117031]

- (5) The above-identified control measure(s) shall be implemented if the permittee determines, as a result of the inspection conducted pursuant to the monitoring section of this permit, that the control measures are necessary to ensure compliance with the above-mentioned applicable requirements. Any required implementation of the control measure(s) shall continue during the operation of the fugitive dust operation/sources until further observation confirms that use of the control measure(s) is unnecessary.

[Authority for term: OAC rule 3745-77-07(A)(1) and P0117031]

- (6) Implementation of the above-mentioned control measures in accordance with the terms and conditions of this permit is appropriate and sufficient to satisfy the requirements of OAC rule 3745-31-05.

[Authority for term: OAC rule 3745-77-07(A)(1) and P0117031]

d) **Monitoring and/or Recordkeeping Requirements**

- (1) The permittee shall comply with the applicable monitoring and record keeping requirements required under 40 CFR Part 60, Subpart WWW, including the following sections:

60.754(b)	NMOC emission rate calculation after installation of collection and control system
60.755(a)(1)	Gas generation flow rate calculation to determine compliance

60.755(a)(2)	Determining sufficient density of gas collectors
60.755(a)(3)	Gas collection system monitoring and corrective action
60.755(a)(5)	Well monitoring and corrective action
60.755(c)	Surface monitoring procedures and corrective actions
60.756(a)	Monitoring of active gas collection system
60.756(b)	Monitoring of enclosed combustor and open flare
60.756(c)	Open flare monitoring requirements
60.756(f)	Surface monitoring frequency
60.758(a)	Recordkeeping requirements
60.758(b)	Recordkeeping for flare compliance demonstration and design
60.758(c)	Recordkeeping for control device parametric monitoring deviations
60.758(d)	Recordkeeping for gas collector map
60.758(e)	Recordkeeping for collection and control system exceedances

[Authority for term: OAC rule 3745-77-07(C)(1), 40 CFR Part 60 Subpart WWW, and P0117031.]

- (2) The permittee shall comply with the applicable monitoring and record keeping restrictions required under 40 CFR Part 63, Subpart AAAA, including the following sections:

63.1960	Compliance demonstration, deviations, SSM plan
63.1965	What constitutes a deviation
63.1975	Clarification of 3-hour block averages
63.1980(a)	Recordkeeping according to 40 CFR 60, subpart WWW
63.1980(b)	Recordkeeping according to 40 CFR 63 and Table 1, NESHAP General Provisions, of this subpart including SSM plan requirements

[Authority for term: OAC rule 3745-77-07(C)(1), 40 CFR Part 63 Subpart AAAA, and P0117031.]

- (3) The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible emissions of fugitive dust resulting from any landfill operations (such as wastes unloading, covering, excavation, and wind erosion). The presence or absence of any visible emissions of fugitive dust 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 location and 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 emission incident; and
  - e. any corrective actions taken to minimize or eliminate the visible emissions.

[Authority for term: OAC rule 3745-77-07(C)(1) and P0117031]

- (4) If visible emissions are present, a visible emission incident has occurred. The observer does not have to document the exact start and end times for the visible emission incident under item (d) above or continue the daily check until the incident has ended. The observer may indicate that the visible emission 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.

[Authority for term: OAC rule 3745-77-07(C)(1) and P0117031]

- (5) The permittee shall maintain a daily operations log which records/documents any watering activity employed to minimize or eliminate visible emissions of fugitive dust for each waste dumping/placement area; the record shall include the time, the location, and the amount of water employed, in gallons

[Authority for term: OAC rule 3745-77-07(C)(1) and P0117031]

- (6) The permittee shall maintain monthly records of the following information:
- a. the total amount of landfill gas (LFG) combusted each month in (P001 through P005) and the 2100 cfm open-flare; and
  - b. the rolling, 12-month summation of the total LFG combusted.

[Authority for term: OAC rule 3745-77-07(C)(1) and P0117031]

- (7) The permittee shall keep readily accessible documentation of the nature, date of deposition, amount, and location of Category I or Category II asbestos-containing and nondegradable wastes, which are excluded from the landfill gas collection requirements of 40 CFR Part 60, Subpart WWW.

[Authority for term: OAC rule 3745-77-07(C)(1) and P0117031]

e) Reporting Requirements

- (1) The permittee shall submit semiannual reports and such other notifications and reports to Ohio EPA, Northeast District Office as required pursuant to 40 CFR Part 60, Subpart WWW, including the following sections:

60.757(a)	Initial and amended design capacity reporting
60.757(b)	NMOC emission rate reporting
60.757(c)	Collection and control system design plan reporting
60.757(d)	Closure report reporting
60.757(e)	Control equipment removal reporting
60.757(f)	Active collection system reporting
60.757(g)	Initial performance test reporting

[Authority for term: OAC rule 3745-77-07(C)(1), 40 CFR Part 60 Subpart WWW and P0117031.]

- (2) The permittee shall comply with the applicable reporting requirements under 40 CFR Part 63, Subpart AAAA, including the following sections:

63.1980(a)	Semiannual reports according to 40 CFR 60, subpart WWW
63.1980(b)	Reporting according to 40 CFR 63 and Table 1, NESHAP General Provisions, of this subpart including SSM plan requirements

[Authority for term: OAC rule 3745-77-07(C)(1), 40 CFR Part 63 Subpart AAAA and P0117031.]

- (3) Unless other arrangements have been approved by the Director, all notifications and reports shall be submitted through the Ohio EPA's eBusiness Center: Air Services online web portal.

[Authority for term: OAC rule 3745-77-07(C)(1) and P0117031]

- (4) The permittee shall submit quarterly written reports that (a) identify all days during which any visible emissions of fugitive dust from materials were observed from operations involving this emissions unit (such as wastes unloading, covering, excavation and wind erosion) and (b) describe any corrective actions taken to minimize or eliminate the visible emissions. These reports shall be submitted to the director (the Ohio EPA Northeast District Office) by January 31, April 30, July 31 and October 31 and shall cover the previous calendar quarters.

[Authority for term: OAC rule 3745-77-07(C)(1) and P0117031]

- (5) The permittee shall submit quarterly deviation (excursion) reports that identify the following:
- a. all exceedances of the rolling, 12-month, limitation for the LFG combusted.

The quarterly deviation (excursion) reports shall be submitted in accordance with the reporting requirements of the Standard Terms and Conditions of this permit.

[Authority for term: OAC rule 3745-77-07(C)(1) and P0117031]

f) Testing Requirements

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

a. Emission Limitation:

The open-flare shall be designed to meet 0.37 lb/mmBtu of CO emissions.

Applicable Compliance Method:

Compliance shall be demonstrated by the manufacturer's emission factor for this emissions unit.

b. Emission Limitation:

The open-flare shall be designed to meet 0.068 lb/mmBtu of NO<sub>x</sub> emissions.

Applicable Compliance Method:

Compliance shall be demonstrated by the manufacturer's emission factor for this emissions unit.

c. Emission Limitation:

SO<sub>2</sub> emissions from the 2100 cfm open-flare shall not exceed 18.6 tons per year.

Applicable Compliance Method:

Compliance shall be demonstrated by using the following equation:

$$E = [(F \times C \times 64 \times 1)/(R \times T \times 10^6)]/2000$$

where:

E = emission rate, ton/year;  
 F = flow rate of LFG, cf/year;  
 C = concentration of sulfur in LFG, ppmv, assumed to be 200;  
 64 = molecular weight of SO<sub>2</sub>, lb/lbmole;  
 1 = pressure, atm;  
 R = gas constant, 0.7302 atm ft<sup>3</sup>/lbmole °R;  
 T = temperature of LFG, 520 degrees °R;  
 10<sup>6</sup> = conversion factor for ppmv; and  
 2000 = conversion factor, lbs/ton.

d. Emission Limitation:

PM/PM<sub>10</sub> emissions from the 2100 cfm open-flare shall not exceed 4.69 tons per year.

Applicable Compliance Method:

Compliance shall be demonstrated by using the following equation:

$$E = EF \times F \times MF/2000$$

where:

E = emission rate, tons/year;  
 EF = emission factor from AP-42, Section 2.4 MSW Landfills, 17 lb/10<sup>6</sup> ft<sup>3</sup> of CH<sub>4</sub>;  
 F = flow rate of LFG, cf/year;  
 MF = methane fraction of LFG that is CH<sub>4</sub>, 0.50; and  
 2000 = conversion factor, lbs/ton.

e. Emission Limitation:

HCl emissions from the 2100 cfm open-flare shall not exceed 2.23 tons per year.

Applicable Compliance Method:

Compliance shall be demonstrated by using the following equation:

$$E = [(F \times C \times 36.5 \times 1)/(R \times T \times 10^6)]/2000$$

where:

E = emission rate, tons/year;  
 F = LFG flow; cf LFG/year;  
 C = concentration of chlorides in LFG, 42 ppmv;  
 36.5 = molecular weight of HCl, lb/lbmole;  
 1 = pressure, atm;  
 R = gas constant, 0.7302 atm ft<sup>3</sup>/lbmole °R;

T = temperature of LFG, 520 degrees °R;  
10<sup>6</sup> = conversion factor for ppmv; and  
2000 = conversion factor, lbs/ton.

f. Emission Limitation:

NMOC emissions from the 2100 cfm open-flare shall not exceed 1.48 tons per year.

Applicable Compliance Method:

Compliance shall be demonstrated by using the following equation:

$$E = [(F \times C \times 86 \times 1) / (R \times T \times 10^6)] \times (1 - 0.98) / 2000$$

where:

E = emission rate, ton/year;  
F = flow rate of combustor, cf/year;  
C = concentration of sulfur in LFG, ppmv, assumed to be 595;  
86 = molecular weight of NMOC, lb/lbmole;  
1 = pressure, atm;  
R = gas constant, 0.7302 atm ft<sup>3</sup>/lbmole °R;  
T = temperature of LFG, 520 degrees °R;  
10<sup>6</sup> = conversion factor for ppmv;  
0.98 = destruction efficiency required by control device of NMOC, 98%; and  
2000 = conversion factor, lbs/ton.

g. Emission Limitation:

Visible particulate emissions of fugitive dust (material transfer, aggregate handling, load-in/load-out operations and wind erosion) from this emissions unit shall not exceed 20% opacity as a 3-minute average.

Applicable Compliance Method:

If required, compliance shall be demonstrated by visible particulate emission evaluations performed in accordance with USEPA Reference Method 9 as set forth in "Appendix A on Test Methods" in 40 CFR Part 60 ("Standards of Performance for New Stationary Sources"), as such Appendix existed on July 1, 1996, and the modifications listed in paragraph (B)(3)(a) and (B)(3)(b) of OAC rule 3745-17-03(B)(3).

h. Emission Limitation:

Fugitive particulate emissions shall not exceed 0.38 ton per year.

Applicable Compliance Method:

Compliance shall be demonstrated by using the emission factor equations in section 13.2.4, in compilation of Air Pollutant Emission Factors, AP-42, Fifth Edition, Volume 1(revised 11/2006) for Aggregate Handling and Storage Piles.

[Authority for term: OAC rule 3745-77-07(C)(1) and P0117031]

- (2) The permittee shall comply with the applicable testing requirements required under 40 CFR Part 60, Subpart WWW, including the following sections:

60.754(d)	Flare Performance test methods
60.754(e)	Net heating value for performance test
60.755(d)	Surface monitoring instrumentation specifications and procedures

[Authority for term: OAC rule 3745-77-07(C)(1), 40 CFR Part 60 Subpart WWW and P0117031.]

g) **Miscellaneous Requirements**

- (1) The predicted maximum amount of annual LFG generated by this landfill (LANDGEM model - 2,771,128 Mcf) occurs in 2028. This exceeds the current capacity of the control equipment (five engines and 2100 cfm open-flare) of approximately 1,978,884 Mcf.

[Authority for term: OAC rule 3745-77-07(C)(1) and P0117031]

**3. F003, Soil stockpiles**

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

Facility storage piles -material load in/out and wind erosion.

a) The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

(1) 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) June 30, 2008 (02-20127)	There shall be no visible particulate emissions of fugitive dust from any storage pile except for a time not to exceed 1 minute during any 60-minute observation period.  Particulate emissions shall not exceed 4.0 tons per year from wind erosion and load-in and load-out operations.  The permittee shall employ best available control measures that are sufficient to minimize or eliminate visible PE of fugitive dust.  See b)(2)a., b)(2)c. through b)(2)h. below.
b.	OAC rule 3745-31-05(A)(3)(a)(ii) June 30, 2008 (02-20127)	The Best Available Technology (BAT) requirements under OAC rule 3745-31-05(A)(3) do not apply to the particulate emissions from this air contaminant source since the potential to emit is less than 10 tons/yr.  See b)(2)b. below.

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
c.	OAC rule 3745-17-07(B)	This emissions unit is exempt from the visible particulate emission limitations specified in OAC rule 3745-17-07(B) pursuant to OAC rule 3745-17-07(B)(11)(e).
d.	OAC rule 3745-17-08(B)	The permittee is not located within an "Appendix A" area as identified in OAC rule 3745-17-08. Therefore, pursuant to OAC rule 3745-17-08(A), the emissions unit is exempt from the requirements of OAC rule 3745-17-08(B).

(2) Additional Terms and Conditions

- a. This Best Available Technology (BAT) emission limit applies until U.S. EPA approves Ohio Administrative Code (OAC) paragraph 3745-31-05(A)(3)(a)(ii) (the less than 10 tons per year BAT exemption) into the Ohio State Implementation Plan (SIP).
- b. These requirements apply once U.S. EPA approves OAC paragraph 3745-31-05(A)(3)(a)(ii) (the less than 10 tons per year exemption) as part of the Ohio SIP.
- c. All of the storage piles at this facility are covered by this permit and are subject to the requirements of OAC rule 3745-31-05.
- d. The permittee shall employ best available control measures on all load-in and load-out operations associated with the storage piles for the purpose of ensuring compliance with the above-mentioned applicable requirements. In accordance with the permittee's application, the permittee has committed to process aggregate material with inherently high moisture content and to minimize drop height distance from front-end loaders to ensure compliance.

The operator shall avoid dragging any front-end loader bucket along the ground. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.

- e. The above-mentioned control measure(s) shall be employed for each load-in and load-out operation of each storage pile if the permittee determines, as a result of the inspection conducted pursuant to the monitoring section of this permit, that the control measure(s) are necessary to ensure compliance with the above-mentioned applicable requirements. Any required implementation of the control measure(s) shall continue during any such operation until further observation confirms that use of the measure(s) is unnecessary.

- f. The permittee shall employ best available control measures for wind erosion from the surfaces of all storage piles for the purpose of ensuring compliance with the above-mentioned applicable requirements. In accordance with the application, the permittee has committed to process aggregate material with inherently high moisture content to ensure compliance. If at any time the moisture content is not sufficient to meet the above emission limitation for wind erosion from the surfaces of all storage piles, the permittee shall employ fugitive dust control measures to ensure compliance. Fugitive dust control measures can include, but are not limited to, the use of water, the use of other dust suppressant materials, or the use of non-dust producing approved cover materials. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.
  - g. The above-mentioned control measure(s) shall be employed for wind erosion from each pile if the permittee determines, as a result of the inspection conducted pursuant to the monitoring section of this permit, that the control measure(s) are necessary to ensure compliance with the above-mentioned applicable requirements. Implementation of the control measure(s) shall not be necessary for a storage pile 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.
  - h. Implementation of the above-mentioned control measures in accordance with the terms and conditions of this permit is appropriate and sufficient to satisfy the requirements of OAC rule 3745-31-05.
- 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 load-in operation at each storage pile at this facility once per day of operation.  
[Authority for term: OAC rule 3745-77-07(C)(1) and 02-20127]
  - (2) Except as otherwise provided in this section, the permittee shall perform inspections of each load-out operation at each storage pile at this facility once per day of operation.  
[Authority for term: OAC rule 3745-77-07(C)(1) and 02-20127]
  - (3) Except as otherwise provided in this section, the permittee shall perform inspections of the wind erosion from pile surfaces associated with each storage pile at this facility once per day of operation.  
[Authority for term: OAC rule 3745-77-07(C)(1) and 02-20127]
  - (4) No inspection shall be necessary for wind erosion from the surface of a storage pile when the pile is covered with snow and/or ice and for any storage pile activity 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.

[Authority for term: OAC rule 3745-77-07(C)(1) and 02-20127]

- (5) The purpose of the inspections is to ensure continued compliance for load-in and load-out of a storage pile and for wind erosion from the surface of a storage pile and determine the need for implementing additional control measures. The inspections shall be performed during representative, normal storage pile operating conditions.

[Authority for term: OAC rule 3745-77-07(C)(1) and 02-20127]

- (6) 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 measure(s);
  - c. the dates the control measure(s) were implemented; and
  - d. on a calendar quarter basis, the total number of days the control measure(s) were implemented and, for wind erosion from pile surfaces, 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 e)(6)d. shall be kept separately for (i) the load-in operations, (ii) the load-out operations, and (iii) the pile surfaces (wind erosion), and shall be updated on a calendar quarter basis within 30 days after the end of each calendar quarter.

[Authority for term: OAC rule 3745-77-07(C)(1) and 02-20127]

e) Reporting Requirements

- (1) The permittee shall submit deviation (exceedance) reports that identify any of the following occurrences:
- a. each day during which an inspection was not performed by the required frequency, excluding an inspection which was not performed due to an exemption for snow and/or ice cover or precipitation; and
  - b. each instance when a control measure, that was to be implemented as a result of an inspection, was not implemented.

[Authority for term: OAC rule 3745-77-07(C)(1) and 02-20127]

- (2) The deviation reports shall be submitted in accordance with the reporting requirements of the General Terms and Conditions of this permit.

[Authority for term: OAC rule 3745-77-07(C)(1) and 02-20127]

f) Testing Requirements

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

- a. Emission Limitation:

There shall be no visible particulate emissions of fugitive dust from any storage pile except for a time not to exceed 1 minute during any 60-minute observation period.

Applicable Compliance Method:

Compliance with the visible emission limitation for the wind erosion and load-in and load-out operations from the storage piles identified 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").

- b. Emission Limitation:

Particulate emissions shall not exceed 4.0 tons per year from wind erosion and load-in and load-out operations.

Applicable Compliance Method:

The permittee shall demonstrate compliance by summing the maximum potential emissions from wind erosion and material load in/out from soil storage piles.

The potential emission rate for wind erosion is calculated as determined by the method from U.S. EPA's Control of Open Fugitive Dust Sources, Equation 4-9 (September 1988), as follows:

$$[1.7 * (s/1.5) * (365 - p)/235 * (f/15)] \text{ lb/acre/day} * 5 \text{ acres} * 365 \text{ days/yr} * \text{ton}/2,000 \text{ lbs} * (1 - CE)$$

where:

s = the silt content (%) of the cover material (assume 9%)

p = number of days with at least 0.01 inch of precipitation per year, 150 days (Youngstown)

f = percent of time wind is at least 12 mph, 27.5% (Youngstown)

CE = fractional control efficiency for moist material (0.75)

The potential emission rate for waste handling is calculated as determined from AP-42, Chapter 13.2.4.3 (11/06), as follows:

$$E = [(0.74) * (0.0032) * (U/5)^{1.3} / (M/2)^{1.4}] \text{ lb/ton} * 456,250 \text{ tons/yr} * \text{ton}/2,000 \text{ lb} * 2 * (1 - CE)$$

where:

U = mean wind speed, 9.4 for Youngstown

M = moisture content of the soil, assume 12%

456,250 = cover soil material handled annually, estimated as half the annual waste receipt from application

2 = accounts for load-in and load-out

CE = fractional control efficiency for moist material (0.75)

[Authority for term: OAC rule 3745-77-07(C)(1) and 02-20127]

g) Miscellaneous Requirements

(1) None.

**4. Emissions Unit Group - RICE: EG1 - EG6: P001, P002, P003, P004, and P005.**

<b>EU ID</b>	<b>Operations, Property and/or Equipment Description</b>
P001	1148 hp engine combusting landfill gas to produce electricity
P002	1148 hp engine combusting landfill gas to produce electricity
P003	1148 hp engine combusting landfill gas to produce electricity
P004	1148 hp engine combusting landfill gas to produce electricity
P005	1148 hp engine combusting landfill gas to produce electricity

a) The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only:

(1) d)(7).

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.

	<b>Applicable Rules/Requirements</b>	<b>Applicable Emissions Limitations/Control Measures</b>
a.	OAC rule 3745-31-05(A)(3) June 30, 2008 (P0106560)	Visible particulate emissions shall not exceed 10% opacity as a 6-minute average. Carbon monoxide (CO) emissions shall not exceed 6.85 pounds per hour and 30.00 tons per year.  Nitrogen oxides (NO <sub>x</sub> ) emissions shall not exceed 3.67 pounds per hour and 16.06 tons per year.  Particulate emissions (PE) and particulate less than or equal to 10 microns in diameter (PM <sub>10</sub> ) emissions shall not exceed 0.52 pound per hour and 2.27 tons per year.  Sulfur dioxide (SO <sub>2</sub> ) emissions shall not exceed 0.67 pound per hour and 2.93 tons per year.  Volatile organic compound (VOC) emissions shall not exceed 0.55 pound per hour and 2.41 tons per year.  See b)(2)a. below.

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
b.	OAC rule 3745-31-05(A)(3)(a)(ii) June 30, 2008 (P0106560)	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 potential to emit is less than 10 tons/yr.  See b)(2)b. below.
c.	OAC rule 3745-17-11(B)(5)	PE shall not exceed 0.062 pound per million Btu of actual heat input.
d.	OAC rule 3745-17-07(A)	Visible PE from any stack shall not exceed 20% opacity as a 6-minute average, except as provided by the rule.
e.	OAC rule 3745-18-06	SO <sub>2</sub> emissions shall not exceed 0.5 pound per million Btu of actual heat input.
f.	40 CFR, Part 60, Subpart JJJJ (40 CFR 60.4230-4248)  [In accordance with 40 CFR 60.4230(a)(4)(ii), this emissions unit is a landfill gas fired lean burn stationary spark ignition (SI) internal combustion engine (ICE) constructed after June 12, 2006 and manufactured after January 1, 2008 with a maximum engine power greater than or equal to 500 HP and less than 1,350 HP]	Emission standards for landfill gas SI-ICE manufactured after January 1, 2008 as specified in Table 1 of 40 CFR, Part 60, Subpart JJJJ.  NO <sub>x</sub> : 3.0 grams per horsepower-hour or 220 ppmvd at 15% oxygen.  CO: 5.0 grams per horsepower-hour or 610 ppmvd at 15% oxygen.  VOC: 1.0 gram per horsepower-hour or 80 ppmvd at 15% oxygen  The NO <sub>x</sub> , CO, and VOC emission limitations established in this subpart are less stringent than those established pursuant to OAC rule 3745-31-05(A)(3).
g.	40 CFR Part 63, Subpart ZZZZ	See b)(2)d.

(2) Additional Terms and Conditions

- a. This Best Available Technology (BAT) emission limit applies until U.S. EPA approved Ohio Administrative Code (OAC) paragraph 3745-31-05(A)(3)(a)(ii) (the less than 10 tons per year BAT exemption) into the Ohio State Implementation Plan (SIP).



- b. These requirements apply once U.S. EPA approved OAC paragraph 3745-31-05(A)(3)(a)(ii) (the less than 10 tons per year BAT exemption) as part of the Ohio SIP.
- c. The internal combustion engine shall operate using lean burn technology.
- d. In accordance with 40 CFR Part 63.6590(c), a new stationary RICE located at an area source must meet the requirements of this subpart by meeting the requirements of 40 CFR Part 60, subpart JJJJ.
- e. The permittee shall comply with the applicable requirements of 40 CFR Part 60, Subpart JJJJ, including the following sections:

60.4236(b)	Installation deadlines
60.4243(b)	Compliance Requirements

c) Operational Restrictions

- (1) This emissions unit shall burn only landfill gas.  
[Authority for term: OAC rule 3745-77-07(A)(1) and P0106560]
- (2) The permittee shall install, maintain and operate according to the manufacturer's specifications a device at the inlet to the internal combustion engine which completely shuts off gas flow to the internal combustion engine when the internal combustion engine is not operating.  
[Authority for term: OAC rule 3745-77-07(A)(1) and P0106560]
- (3) The flow rate to the internal combustion engines shall not exceed 1998 scfm of landfill gas.  
[Authority for term: OAC rule 3745-77-07(A)(1) and P0106560]
- (4) 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 the emissions standards
60.4243(b)	Maintenance Requirements
60.4243(g)	Air-to-Fuel (ATR) controllers

[Authority for term: OAC rule 3745-77-07(A)(1), 40 CFR Part 60 Subpart JJJJ and P0106560.]

d) **Monitoring and/or Recordkeeping Requirements**

(1) The permittee shall perform weekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving each emissions unit. The presence or absence of any visible emissions shall be noted in an operations log for each unit. If visible emissions are observed, the permittee shall also note the following in the operations log:

- a. the color of the emissions;
- b. the cause of the visible emissions;
- c. the total duration of any visible emissions incident; and
- d. any corrective actions taken to eliminate the visible emissions.

[Authority for term: OAC rule 3745-77-07(C)(1) and P0106560]

(2) The permittee shall install, calibrate, and maintain a device that monitors and records gas flow to the internal combustion engines, as a group. The gas flow rate measuring device shall record the flow to the control device at least every 15 minutes.

[Authority for term: OAC rule 3745-77-07(C)(1) and P0106560]

(3) The permittee shall monitor and record the downtime of each engine, individually.

[Authority for term: OAC rule 3745-77-07(C)(1) and P0106560]

(4) The permittee shall collect and record each day all times the maximum allowable landfill gas flow rate to the internal combustion engines was exceeded.

[Authority for term: OAC rule 3745-77-07(C)(1) and P0106560]

(5) The permittee shall record each day when a fuel other than landfill gas was burned in this emissions unit.

[Authority for term: OAC rule 3745-77-07(C)(1) and P0106560]

(6) The permittee shall comply with the applicable restrictions of 40 CFR Part 60, Subpart JJJJ, including the following sections:

60.4243(b)(2)(ii)	Keeping a maintenance plan and records of conducted maintenance
60.4245(a)	Records required
60.4245(b)	Keep records of operating hours recorded through the non-resettable hour meter



[Authority for term: OAC rule 3745-77-07(C)(1), 40 CFR Part 60 Subpart JJJJ and P0106560]

- (7) Modeling to demonstrate compliance with, the “Toxic Air Contaminant Statute”, ORC 3704.03(F)(4)(b), was not necessary because the emissions units 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 PTI 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 Permit to Install.

[Authority for term: OAC rule 3745-77-07(C)(1), OAC rule 3745-114-01 and P0106560]

e) Reporting Requirements

- (1) The permittee shall submit semiannual written reports that:
  - a. identify all days during which any visible particulate emissions were observed from the stack serving this emissions unit;
  - b. describe any corrective actions taken to eliminate the visible particulate emissions; and
  - c. identify the date(s) and duration the gas flow rate to the internal combustion engines exceeded the maximum gas flow rate of 1998 scfm of LFG.

These reports shall be submitted to the Northeast District Office of the Ohio EPA by January 31 and July 31 of each year and shall cover the previous 6-month period.

[Authority for term: OAC rule 3745-77-07(C)(1) and P0106560]

- (2) The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than landfill gas was burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.

[Authority for term: OAC rule 3745-77-07(C)(1) and P0106560]

- (3) The permittee shall comply with the applicable restrictions of 40 CFR Part 60, Subpart JJJJ, including the following sections:

60.4245(c)	Initial Notification
60.4245(d)	Performance Test Report

[Authority for term: OAC rule 3745-77-07(C)(1), 40 CFR Part 60 Subpart JJJJ and P0106560.]

f) Testing Requirements

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

a. Emission Limitation:

Visible PE shall not exceed 10% opacity as a 6-minute average.

Applicable Compliance Method:

If required, compliance shall be demonstrated based upon visible particulate emission observations performed in accordance with the methods and procedures specified in 40 CFR Part 60, Appendix A, Method 9.

b. Emission Limitation:

CO emissions shall not exceed 6.85 pounds per hour and 30.00 tons per year.

Applicable Compliance Method:

Compliance with the CO hourly emission and technical limitations shall be determined in accordance with the performance test requirement specified in f)(1).

The tpy emission limitation was developed by multiplying the short-term allowable CO emission limitation (6.85 lbs/hr) by the maximum annual hours of operation (8,760 hours), and then dividing by 2,000 lbs per ton. Therefore, if compliance is shown with the short-term allowable emission limitation, compliance shall also be shown with the annual emission limitation.

c. Emission Limitation:

NO<sub>x</sub> emissions shall not exceed 3.67 pounds per hour and 16.06 tons per year.

Applicable Compliance Method:

Compliance with the NO<sub>x</sub> hourly emission limitation shall be determined in accordance with the performance test requirement specified in f)(1).

The tpy emission limitation was developed by multiplying the short-term allowable NO<sub>x</sub> emission limitation (3.67 lbs/hr) by the maximum annual hours of operation (8,760 hours), and then dividing by 2,000 lbs per ton. Therefore, if compliance is shown with the short-term allowable emission limitation, compliance shall also be shown with the annual emission limitation.

d. Emission Limitation:

PE and PM<sub>10</sub> emissions shall not exceed 0.52 pound per hour and 2.27 tons per year.

Applicable Compliance Method:

Compliance with the PE/PM<sub>10</sub> hourly emission limitation shall be determined in accordance with the following equation:

$$E = EF \times \text{Flow} \times MC \times 60$$

where:

E = emission rate of PE/PM<sub>10</sub>, pounds per hour;  
EF = emission factor from AP-42, Section 2.4, Municipal Solid Waste Landfills, Table 2.4-4, version 11/1998, 48 lb PM/mmdcsf CH<sub>4</sub>;  
Flow = average flow rate of LFG into engine, cfm;  
MC = average methane content of LFG; and  
60 = conversion factor, minutes per hour.

e. Emission Limitation:

SO<sub>2</sub> emissions shall not exceed 0.67 pound per hour and 2.93 tons per year.

Applicable Compliance Method:

Compliance with the SO<sub>2</sub> hourly emission limitation shall be determined by using the following equation:

$$E = (EF \times MW \times \text{flow}) / (24.45 \times 35.31 \times 1000 \times 454)$$

where:

E = emission rate, pounds per hour;  
EF = SO<sub>2</sub> contained in the LFG (per facility 200 ppm), ppm;  
MW = molecular weight of SO<sub>2</sub>, 64.06;  
flow = flow of LFG to engine per hour, ft<sup>3</sup> per hour;  
24.45 = conversion factor from ppm to mg/m<sup>3</sup>, (mg/m<sup>3</sup> = ppm x MW/24.45);  
35.31 = conversion factor, ft<sup>3</sup> per m<sup>3</sup>;  
1000 = conversion factor, mg per gram; and  
454 = conversion factor, grams per pound.

The tpy emission limitation was developed by multiplying the short-term allowable SO<sub>2</sub> emission limitation (0.67 lb/hr) by the maximum annual hours of operation (8,760 hours), and then dividing by 2,000 lbs per ton. Therefore, if compliance is shown with the short-term allowable emission limitation, compliance shall also be shown with the annual emission limitation.

f. Emission Limitation:

VOC emissions shall not exceed 0.55 pound per hour and 2.41 tons per year.

Applicable Compliance Method:

Compliance with the VOC hourly emission and technical limitations shall be determined in accordance with the performance test requirement specified in f)(3).

The tpy emission limitation was developed by multiplying the short-term allowable VOC emission limitation (0.55 lb/hr) by the maximum annual hours of operation (8,760 hours), and then dividing by 2,000 lbs per ton. Therefore, if compliance is shown with the short-term allowable emission limitation, compliance shall also be shown with the annual emission limitation.

g. Emission Limitation:

PE shall not exceed 0.062 pound per million Btu of actual heat input.

Applicable Compliance Method:

If required, compliance with the PE pound per million Btu of actual heat input limitation shall be determined in accordance with Method 5 of 40 CFR Part 60, Appendix A.

h. Emission Limitation:

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

Applicable Compliance Method:

If required, compliance shall be demonstrated based upon visible particulate emission observations performed in accordance with the methods and procedures specified in 40 CFR Part 60, Appendix A, Method 9.

i. Emission Limitation:

SO<sub>2</sub> emissions shall not exceed 0.5 pound per million Btu of actual heat input.

Applicable Compliance Method:

If required, compliance shall be demonstrated based upon an emission test performed in accordance with the methods and procedures specified in 40 CFR Part 60, Appendix A, Method 8.

j. Emission Limitation:

NO<sub>x</sub> emissions shall not exceed 3.0 grams per horsepower-hour or 220 ppmvd at 15% oxygen.

Applicable Compliance Method:

Compliance with the NOx emission limitation shall be determined in accordance with the performance test requirement specified in f)(3).

k. Emission Limitation:

CO emissions shall not exceed 5.0 grams per horsepower-hour or 610 ppmvd at 15% oxygen.

Applicable Compliance Method:

Compliance with the CO emission limitation shall be determined in accordance with the performance test requirement specified in f)(3).

l. Emission Limitation:

VOC emissions shall not exceed 1.0 grams per horsepower-hour or 80 ppmvd at 15% oxygen.

Applicable Compliance Method:

Compliance with the VOC limitation shall be determined in accordance with the performance test requirement specified in f)(3).

[Authority for term: OAC rule 3745-77-07(C)(1) and P0106560]

- (2) The permittee shall comply with the applicable restrictions of 40 CFR Part 60, Subpart JJJJ, including the following sections:

60.4243(b)(1)	Certified engines - Compliance demonstration
60.4243(b)(2)	Non-certified engines - Compliance demonstration
60.4243(b)(2)(ii)	Performance testing every 8760 hours or every three years, whichever comes first
60.4244	Test methods and procedures

[Authority for term: OAC rule 3745-77-07(C)(1), 40 CFR Part 60 Subpart JJJJ and P0106560.]

- (3) The permittee shall conduct, or have conducted, emission testing for each emissions unit in accordance with the following requirements:
- a. The emission testing shall be conducted every 8,760 hours or three years, whichever comes first.

- b. The emission testing shall be conducted to demonstrate compliance with the allowable mass emission rates for NO<sub>x</sub>, CO, and VOC.
- c. The following test methods shall be employed to demonstrate compliance with the allowable mass emission rates:
  - NO<sub>x</sub> - Method 7 or 7E of 40 CFR Part 60, Appendix A;
  - CO - Method 10 of 40 CFR Part 60, Appendix A; and
  - VOC - Method 18 or Method 25A of 40 CFR Part 60, Appendix A or Method 320 of 40 CFR Part 63.Alternative U.S. EPA-approved test methods may be used with prior approval from the Ohio EPA.
- d. During the emissions testing, the emissions unit shall be operated under operational conditions approved in advance by the Ohio EPA Northeast District Office. Operational conditions that may need to be approved include, but are not limited to, the production rate, the type of material processed, material make-up (solvent content, etc.), or control equipment operational limitations (burner temperature, precipitator voltage, etc.). In general, testing shall be done at maximum capacity (100% +/- 10%). As part of the information provided in the "Intent to Test" notification form described below, the permittee shall provide a description of the emissions unit operational conditions they will meet during the emissions testing. Failure to test under the approved conditions may result in Ohio EPA not accepting the test results as a demonstration of compliance.
- e. Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Ohio EPA Northeast District Office. 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 Northeast District Office's refusal to accept the results of the emission test(s).
- f. Personnel from the Ohio EPA Northeast District Office shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.



- g. A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the Ohio EPA Northeast District Office 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 Ohio EPA Northeast District Office.

[Authority for term: OAC rule 3745-77-07(C)(1) and P0106560]

g) Miscellaneous Requirements

- (1) None.