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

12/16/2013

Certified Mail

Mr. Chris Jaquet
BFI - Lorain County Facilities
22730 Fairview Center Drive
Suite 100
Fairview, OH 44126

Facility ID: 0247000760
Permit Number: P0114469
County: Lorain

RE: PRELIMINARY PROPOSED AIR POLLUTION TITLE V PERMIT
Permit Type: Renewal

Dear Permit Holder:

Enclosed is the Ohio Environmental Protection Agency (EPA)Preliminary Proposed Title V permit that was issued in draft form on 11/12/2013. The comment period for the Draft permit has ended. We are now ready to submit this permit to U.S. EPA for approval.

We are submitting this for your review and comment. If you do not agree with the Preliminary Proposed Title V permit as written, you now have the opportunity to raise your concerns. This permit can be accessed electronically on the Division of Air Pollution Control (DAPC) Web page, www.epa.ohio.gov/dapc by clicking the "Search for Permits" link under the Permitting topic on the Programs tab. Comments will be accepted as a marked-up copy of the permit or in narrative format. Any comments must be sent to the following within 14 days of your receipt of this letter:

Andrew Hall
Permit Review/Development Section
Ohio EPA, DAPC
50 West Town Street, Suite 700
P.O. Box 1049
Columbus, Ohio 43216-1049

and

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

If you believe that it is necessary to have an informal conference with us, then, as part of your written comments, you should request a conference concerning the written comments.If comments are not submitted within 14 days of your receipt of this letter, we will forward the proposed permit to U.S. EPA for approval. All comments received will be carefully considered before proceeding with the proposed permit.

Sincerely,

Michael W. Ahern

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

Cc: Ohio EPA DAPC, Northeast District Office

Response to Comments

Facility ID:	0247000760
Facility Name:	BFI - Lorain County Facilities
Facility Description:	Solid waste disposal and recycling facility
Facility Address:	43502 Oberlin-Elyria Road Oberlin, OH 44074 Lorain County
Permit:	P0114469, Title V Permit - Renewal
A public notice for the draft permit issuance was published in the Ohio EPA Weekly Review and appeared in the The Chronicle Telegram on 11/13/2013. The comment period ended on 12/13/2013.	
Hearing date (if held)	
Hearing Public Notice Date (if different from draft public notice)	

The following comments were received during the comment period specified. Ohio EPA reviewed and considered all comments received during the public comment period. By law, Ohio EPA has authority to consider specific issues related to protection of the environment and public health. Often, public concerns fall outside the scope of that authority. For example, concerns about zoning issues are addressed at the local level. Ohio EPA may respond to those concerns in this document by identifying another government agency with more direct authority over the issue.

In an effort to help you review this document, the questions are grouped by topic and organized in a consistent format. PDF copies of the original comments in the format submitted are available upon request.

1. Topic: None

a. Comment: None

b. Response: None

NO Comments were received.

PRELIMINARY PROPOSED

Division of Air Pollution Control
Title V Permit
for
BFI - Lorain County Facilities

Facility ID:	0247000760
Permit Number:	P0114469
Permit Type:	Renewal
Issued:	12/16/2013
Effective:	To be entered upon final issuance
Expiration:	To be entered upon final issuance

Division of Air Pollution Control
Title V Permit
for
BFI - Lorain County Facilities

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Authorization

Facility ID:	0247000760
Facility Description:	Solid waste disposal and recycling facility
Application Number(s):	A0047777
Permit Number:	P0114469
Permit Description:	Title V renewal permit for a solid waste disposal and recycling facility
Permit Type:	Renewal
Issue Date:	12/16/2013
Effective Date:	To be entered upon final issuance
Expiration Date:	To be entered upon final issuance
Superseded Permit Number:	P0085180

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

BFI - Lorain County Facilities
43502 Oberlin-Elyria Road
Oberlin, OH 44074

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)425-9171

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

Scott J. Nally
Director

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 recordingsfor 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 submittedscheduled maintenancerequests, 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 permitexcept 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

Officialthat, 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 intermittentconsistent 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, noemissions unit identified in this permit that has beencertified 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 RequirementsUnder 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 theOhio 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 RequirementsUnder 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 ofan 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.

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 insignificant emissions units are located at this facility:

   F005 - Storage Piles (PTI # P0112991)

   P005 - 48 HP Water Pump (PTI # 02-14640)

   P007 - 48 HP Water Pump (PTI # P0106053)

   T003 - 20,000 Gallon Leachate Tank (PTI # 02-18211)

   T004 - 31,000 Gallon Leachate Tank (PTI # 02-18211)

   Each insignificant emissions unit at this facility must comply with all State and Federal regulations, as well as any emission limitations and/or control requirements contained with the identified permit to install for the emissions unit. Insignificant emissions units listed above that are not subject to specific permit to install requirements are subject to one or more applicable requirements contained in the federally-approved versions of OAC Chapters 3745-17, 3745-18, and/or 3745-21.

C. Emissions Unit Terms and Conditions

1. F001, Roadway Activity

Operations, Property and/or Equipment Description:

Landfill 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.	OAC rule 3745-31-05(A)(3) PTI 02-13577	Particulate emissions shall not exceed 34.5 tons per year. No visible emissions from any unpaved roadway or unpaved parking area except for a period of time not to exceed three minutes during any sixty-minute observation period. No visible emissions from any paved roadway or paved parking area except for a period of time not to exceed one minute during any sixty-minute observation period.
b.	OAC rule 3745-17-08(B)	Exempt, per OAC rule 3745-17-08(A)(1). The facility is not located within an Appendix A area.
c.	OAC rule 3745-17-07(B)	Exempt per OAC rule 3745-17-07(B)(11)(d). The facility is not located within an Appendix A area.

(2) Additional Terms and Conditions

a. The permittee shall employ best available control measures on all paved roadways and parking areas and unpaved roadways and parking areas for the purpose of ensuring compliance with the above-mentioned applicable requirements. In accordance with the permittee's application, the permittee has committed to treat the paved and unpaved roadways and parking areas by

application of chemical stabilization/dust suppressants and/or watering at sufficient treatment frequencies to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.

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 roadways and parking areas and unpaved roads 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 re-suspension, 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. Any unpaved roadway or parking area that is subsequently paved will shall follow the requirements for paved roadways and parking areas.

e. 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.

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 requirements of OAC rule 3745-31-05.

c) Operational Restrictions

(1) Used oil as defined by OAC rule 3745-279-01(A)(12) shall not be used as a dust suppressant.

[Authority for term: OAC rule 3745-77-07(A)(1) and PTI 02-13577]

d) Monitoring and/or Recordkeeping Requirements

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

roadways and parking areas	minimum inspection frequency
all paved roads and parking areas	daily
all unpaved roads and parking area	daily

[Authority for term: OAC rule 3745-77-07(C)(1) and PTI 02-13577]

(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 PTI 02-13577]

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

a. the date and reason any required inspection was not performed, including those inspections that were not performed due to snow and/or ice cover or precipitation;

b. the date of each inspection where it was determined by the permittee that it was necessary to implement the control measures;

c. the dates the control measures were implemented; and

d. on a calendar quarter basis, the total number of days the control measures were implemented and the total number of days where snow and/or ice cover or precipitation were sufficient to not require the control measures.

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

[Authority for term: OAC rule 3745-77-07(C)(1) and PTI 02-13577]

e) Reporting Requirements

(1) 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 PTI 02-13577]

(2) The deviation 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 PTI 02-13577]

f) Testing Requirements

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

a. Emission Limitation:

Particulate emissions shall not exceed 34.5 tons per year.

Applicable Compliance Method:

Compliance shall be determined by the following equations as they appeared in AP-42 sections 13.2.1 and 13.2.2, paved roads and unpaved roads versions 1/96 and 9/98, respectively:

For Unpaved Roadways and Unpaved Parking Areas

E = {[k x (s/12)0.8 x (W/3)0.5]/(M/0.2)0.4} x [(365-p)/365] x VMT/2000

where:

E = emission rate (tons per year);
k = coefficient for particulate emissions, (10);
s = silt content (6.4%), Table 13.2.2-1;
W = average vehicle weight (tons);
M = moisture content (0.2), default;
p = number of days with at least 0.01 inches of precipitation per year (150);
VMT = vehicular miles traveled (miles per year); and
2000 = conversion factor (pounds per ton).

For Paved Roadways and Paved Parking Areas

E = k x (sL/2)0.65 x (W/3)1.5 x VMT/2000

where:

E = emission rate (tons per year);
k = emission factor for particulate emissions, (0.082 pound per VMT);
sL = silt loading, 7.4 g/m2;
W = average vehicular weight, tons;
VMT = vehicular miles traveled (miles per year); and
2000 = conversion factor (pounds per ton).

The total emission rate shall be calculated by adding the emission rates (tons per year) from the unpaved roadways and parking areas and paved roadways and parking areas.

b. Emission Limitation:

No visible emissions from any unpaved roadway or unpaved parking area except for a period of time not to exceed three minutes during any sixty-minute observation period.

No visible emissions from any paved roadway or paved parking area except for a period of time not to exceed one minute during any sixty-minute observation period.

Applicable Compliance Method:

If required, compliance with the emission limitations for the paved and unpaved roadways and parking areas 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," as such Appendix existed on July 1, 1996, and the modifications listed in paragraphs (B)(4)(a) through (B)(4)(d) of OAC rule 3745-17-03.

[Authority for term: OAC rule 3745-77-07(C)(1) and PTI 02-13577]

g) Miscellaneous Requirements

(1) None.

2. F002, Landfill Operations

Operations, Property and/or Equipment Description:

F002 - Landfill Operations at Lorain County Landfill #1 and #2, to include an enclosed combustor for landfill #1 and an open flare for landfill #2. Modification - addition of a third flare rated at 3,000 ACFM

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)(6) through d)(9) and e)(4)

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) PTI P0106053	Fugitive non-methane organic compound (NMOC) emissions shall not exceed 168.09 tons per year. Fugitive methane (CH_4) emissions shall not exceed 26,289 tons per year. Fugitive hazardous air pollutant (HAP) emissions shall not exceed 32.95 tons per year. Fugitive particulate emissions (PE) shall not exceed 11.68 tons per year. Fugitive volatile organic compound (VOC) emissions shall not exceed 65.56 tons per year. Visible fugitive PE shall not exceed 20% opacity as a 3-minute average. Best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust [See c)(9) through c)(12)]. See b)(2)a.

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
		2000 ft^3/min Enclosed Combustor: Carbon monoxide (CO) emissions shall not exceed 0.10 lb per mmBtu; 6.6 lbs per hour and 28.91 tons per year. Nitrogen oxides (NO_X) emissions shall not exceed 0.05 lb per mmBtu; 3.3 lbs per hour; and 14.45 tons per year. Sulfur dioxide (SO_2) emissions shall not exceed 1.00 lb per hour and 4.38 tons per year. Hydrogen chloride (HCl) emissions shall not exceed 0.48 lb per hour and 2.11 tons per year. Particulate matter less than 10 microns in diameter (PM_{10}) emissions shall not exceed 1.12 lbs per hour and 4.91 tons per year. (All particulate emissions from the enclosed combustor are PM_{10}.) Visible emissions, from this stack, shall not exceed 10% opacity as a 6-minute average. **Each 5500 ft^3/min Enclosed Combustor:** CO emissions shall not exceed 0.10 lb per mmBtu; 18.2 lbs per hour and 79.50 tons per year. NO_X emissions shall not exceed 0.05 lb per mmmBtu; 9.08 lbs per hour and 39.75 tons per year. SO_2 emissions shall not exceed 2.76 lbs per hour and 12.09 tons per year.

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
		HCl emissions shall not exceed 1.33 lbs per hour and 5.84 tons per year. PM_{10} emissions shall not exceed 3.09 lbs per hour and 13.52 tons per year. (All particulate emissions from the enclosed combustor are PM_{10}.) Visible emissions, from this stack, shall not exceed 10% opacity as a 6-minute average.
b.	40 CFR Part 60, Subpart WWW 40 CFR 60.750	See b)(2)b.
c.	40 CFR Part 63, Subpart AAAA	See b)(2)c.
d.	40 CFR Part 63, Subpart A 40 CFR 63.6(e)(3)	See Table 1 of 40 CFR Part 63, Subpart AAAA See b)(2)d.
e.	OAC rule 3745-17-08(B)	Exempt, pursuant to OAC 3745-17-08(A)(1).
f.	OAC rule 3745-17-07(B)(1)	Exempt, pursuant to OAC 3745-17-07(B).

(2) Additional Terms and Conditions

a. The requirements of this rule include compliance with the terms and conditions of this permit. The requirements of this rule also include compliance with the requirements of 40 CFR Part 60, Subpart WWW and 40 CFR Part 63, Subpart AAAA.

b. 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. Additional 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 gas collection systems
60.752 (b)(2)(v)	Provisions for capping or removal of a GCCS
60.755 (a)(6)	Approval by Administrator for non-conforming GCCS
60.755 (b)	Timeline for placements of wells
60.759	Active collection system specification

c. 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. Additional 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 Part 60, Subpart WWW
63.1955 (b)	Compliance standards for collection and control system
63.1955 (c)	Approval by Administrator for non-conforming GCCS

d. The permittee shall develop and implement a written startup, shutdown, and malfunction (SSM) plan according to the provisions in 40 CFR 63.6(e)(3). A copy of the SSM plan must be maintained on site.

e. There shall be no open burning, in violation of OAC Chapter 3745-19, at this facility.

[Authority for term: OAC chapter 3745-19]

f. Pursuant to the authority in ORC section 3704.03(L), any representative of the Director may, upon presentation of proper identification, enter at any reasonable time upon any portion of the property where this landfill is located, including any improvements thereon, to make inspections; take samples; conduct tests; examine records or reports pertaining to any emissions of air contaminants; and inspect monitoring equipment, emissions control equipment, and/or methods of operation and gas sampling. No operator or agent of this landfill shall act in any manner to refuse, hinder, or thwart this legal right of entry.

[Authority for term: ORC 3704.03(L)]

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)	Areas requiring gas collection
60.753 (b)	Wellhead negative pressure requirements

60.753 (c)	Wellhead temperature and oxygen/nitrogen requirements
60.753 (d)	Surface monitoring standards
60.753 (e)	Collection and control or system shutdown
60.753 (f)	Operate the treatment system when gas routed to it
60.753 (g)	Corrective action for operational parameters

(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, and SSM Plan
63.1965	Deviation defined

(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 PTI P0106053]

(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 PTI P0106053]

(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 PTI P0106053]

(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 PTI P0106053]

d) Monitoring and/or Recordkeeping Requirements

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

60.754 (b)	NMOC calculation for determining when system can be removed
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)	Wellhead pressure and corrective action
60.755 (a)(5)	Wellhead temperature and oxygen/nitrogen and corrective action
60.755 (c)	Surface monitoring procedures and corrective actions
60.756 (a)	Monitor pressure, temperature, nitrogen/oxygen at each wellhead
60.756 (b)	Enclosed combustor requirements
60.756 (c)	Open flare requirements
60.756 (f)	Surface scan frequency
60.758 (a)	Records retention
60.758 (b)	Record keeping for GCCS
60.758 (c)	Record keeping for control device parametric monitoring deviations
60.758 (d)	Record keeping for gas collection map
60.758 (e)	Record keeping for collection and control system exceedances

(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 and SSM Plan
63.1965	Deviation defined
63.1975	Clarification of 3-hour block averages
63.1980 (a)	Record keeping according to 40 CFR Part 60, Subpart WWW
63.1980 (b)	Record keeping according to 40 CFR Part 63 and Table 1, NESHAP General Provisions, of this subpart including SSM Plan requirements

(3) 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: 40 CFR 60.758(d)(2),OAC rule 3745-77-07(C)(1) and PTI P0106053]

(4) 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 from non-asbestos-containing materials 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 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 PTI P0106053]

(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 PTI P0106053]

(6) The PTI application for this emissions unit(s), Landfill fugitive emissions, 2000 ft^3/min combustor, and 5500 ft^3/min combustors, was evaluated based on the actual materials and the design parameters of the emissions unit's(s') exhaust system, as specified by the permittee. The "Toxic Air Contaminant Statute", ORC 3704.03(F), was applied to this/these emissions unit(s) for each toxic air contaminant listed in OAC rule 3745-114-01, using data from the permit application; and modeling was performed for each toxic air contaminant(s) emitted at over one ton per year using an air dispersion model such as SCREEN3, AERMOD, or ISCST3, or other Ohio EPA approved model. The predicted 1-hour maximum ground-level concentration result(s) from the approved air dispersion model, was compared to the Maximum Acceptable Ground-Level Concentration (MAGLC), calculated as described in the Ohio EPA guidance document entitled "Review of New Sources of Air Toxic Emissions, Option A", as follows:

a. the exposure limit, expressed as a time-weighted average concentration for a conventional 8-hour workday and a 40-hour workweek, for each toxic compound(s) emitted from the emissions unit(s), (as determined from the raw materials processed and/or coatings or other materials applied) has been documented from one of the following sources and in the following order of preference (TLV was and shall be used, if the chemical is listed):

i. threshold limit value (TLV) from the American Conference of Governmental Industrial Hygienists (ACGIH) "Threshold Limit Values for Chemical Substances and Physical Agents Biological Exposure Indices"; or

ii. STEL (short term exposure limit) or the ceiling value from the American Conference of Governmental Industrial Hygienists (ACGIH) "Threshold

Limit Values for Chemical Substances and Physical Agents Biological Exposure Indices"; the STEL or ceiling value is multiplied by 0.737 to convert the 15-minute exposure limit to an equivalent 8-hour TLV.

b. The TLV is divided by ten to adjust the standard from the working population to the general public (TLV/10).

c. This standard is/was then adjusted to account for the duration of the exposure or the operating hours of the emissions unit(s), i.e., "X" hours per day and "Y" days per week, from that of 8 hours per day and 5 days per week. The resulting calculation was (and shall be) used to determine the Maximum Acceptable Ground-Level Concentration (MAGLC):

TLV/10 x 8/X x 5/Y = 4 TLV/XY = MAGLC

d. The following summarizes the results of dispersion modeling for the significant toxic contaminants (emitted at 1 or more tons/year) or "worst case" toxic contaminant(s):

For 5500 ft^3/min combustors

Toxic Contaminant: Hydrogen Chloride
TLV (mg/m^3): 2,983,000
Maximum Hourly Emission Rate (lbs/hr): 1.33
Predicted 1-Hour Maximum Ground-Level Concentration (ug/m^3): 0.004
MAGLC (ug/m^3): 71.02

For 2000 ft^3/min combustor

Toxic Contaminant: Hydrogen Chloride
TLV (mg/m^3): 2,983,000
Maximum Hourly Emission Rate (lbs/hr): 0.48
Predicted 1-Hour Maximum Ground-Level Concentration (ug/m^3): 61.76
MAGLC (ug/m^3): 71.02

For fugitive landfill emissions

Toxic Contaminant: Vinyl Chloride
TLV (mg/m^3): 2,556,000
Maximum Hourly Emission Rate (lbs/hr): 0.47
Predicted 1-Hour Maximum Ground-Level Concentration (ug/m^3): 1.18
MAGLC (ug/m^3): 60.86

The permittee, has demonstrated that emissions of Hydrogen chloride and vinyl chloride from the landfill operations are calculated to be less than eighty per cent of the maximum acceptable ground level concentration (MAGLC); any new raw material or processing agent shall not be applied without evaluating each component toxic air contaminant in accordance with the "Toxic Air Contaminant Statute", ORC 3704.03(F).

[Authority for term: ORC 3704.03(F), OAC rule 3745-77-07(C)(1) and PTI P0106053]

(7) Prior to making any physical changes to or changes in the method of operation of the emissions unit(s), that could impact the parameters or values that were used in the predicted 1-hour maximum ground-level concentration, the permittee shall re-model the change(s) to demonstrate that the MAGLC has not been exceeded. Changes that can affect the parameters/values used in determining the 1-hour maximum ground-level concentration include, but are not limited to, the following:

a. changes in the composition of the materials used or the use of new materials, that would result in the emission of a new toxic air contaminant with a lower Threshold Limit Value (TLV) than the lowest TLV previously modeled;

b. changes in the composition of the materials, or use of new materials, that would result in an increase in emissions of any toxic air contaminant listed in OAC rule 3745-114-01, that was modeled from the initial (or last) application; and

c. physical changes to the emissions unit(s) or its/their exhaust parameters (e.g., increased/ decreased exhaust flow, changes in stack height, changes in stack diameter, etc.)

If the permittee determines that the “Toxic Air Contaminant Statute” will be satisfied for the above changes, the Ohio EPA will not consider the change(s) to be a "modification" under OAC rule 3745-31-01 solely due to a non-restrictive change to a parameter or process operation, where compliance with the “Toxic Air Contaminant Statute”, ORC 3704.03(F), has been documented. If the change(s) meet(s) the definition of a “modification”, the permittee shall apply for and obtain a final PTI, PTIO, or FEPTIO (as applicable) prior to the change. The Director may consider any significant departure from the operations of the emissions unit, described in the permit application, as a modification that results in greater emissions than the emissions rate modeled to determine the ground level concentration; and he/she may require the permittee to submit a permit application for the increased emissions.

[Authority for term: ORC 3704.03(F), OAC rule 3745-77-07(C)(1) and PTI P0106053]

(8) The permittee shall collect, record, and retain the following information for each toxic evaluation conducted to determine compliance with the “Toxic Air Contaminant Statute”, ORC 3704.03(F):

a. a description of the parameters/values used in each compliance demonstration and the parameters or values changed for any re-evaluation of the toxic(s) modeled (the composition of materials, new toxic contaminants emitted, change in stack/exhaust parameters, etc.);

b. the Maximum Acceptable Ground-Level Concentration (MAGLC) for each significant toxic contaminant or worst-case contaminant, calculated in accordance with the “Toxic Air Contaminant Statute”, ORC 3704.03(F);

c. a copy of the computer model run(s), that established the predicted 1-hour maximum ground-level concentration that demonstrated the emissions unit(s) to be in compliance with the “Toxic Air Contaminant Statute”, ORC 3704.03(F),

initially and for each change that requires re-evaluation of the toxic air contaminant emissions; and

d. the documentation of the initial evaluation of compliance with the "Toxic Air Contaminant Statute", ORC 3704.03(F), and documentation of any determination that was conducted to re-evaluate compliance due to a change made to the emissions unit(s) or the materials applied.

[Authority for term: ORC 3704.03(F), OAC rule 3745-77-07(C)(1) and PTI P0106053]

(9) The permittee shall maintain a record of any change made to a parameter or value used in the dispersion model, used to demonstrate compliance with the "Toxic Air Contaminant Statute", ORC 3704.03(F), through the predicted 1-hour maximum ground-level concentration. The record shall include the date and reason(s) for the change and if the change would increase the ground-level concentration.

[Authority for term: ORC 3704.03(F), OAC rule 3745-77-07(C)(1) and PTI P0106053]

e) Reporting Requirements

(1) The permittee shall submit semi-annual reports and such other notifications and reports to the 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 submittal
60.757 (d)	Closure report requirements
60.757 (e)	Control equipment removal reporting
60.757 (f)	Active collection system reporting
60.757 (g)	Initial performance test reporting

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

63.1980 (a)	Semi-annual reports according to 40 CFR, Part 60, Subpart WWW
63.1980 (b)	Reporting according to 40 CFR, Part 63 and Table 1, NESHAP General Provisions, of this subpart including SSM Plan requirements.

(3) The permittee shall submit quarterly written reports that (a) identify all days during which any visible emissions of fugitive dust from non-asbestos-containing 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 eliminate the visible emissions. These reports shall be submitted to the Director (the appropriate Ohio EPA District Office or local air agency) 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 PTI P0106053]

(4) The permittee shall submit annual reports to the Ohio EPA Northeast District Office, documenting any changes made to a parameter or value used in the dispersion model, that was used to demonstrate compliance with the Toxic Air Contaminant Statute, ORC 3704.03(F), through the predicted 1-hour maximum ground-level concentration. If no changes to the emissions unit(s) or the exhaust stack have been made, then the report shall include a statement to this effect. This report shall be postmarked or delivered no later than January 31 following the end of each calendar year.

[Authority for term: OAC rule 3745-77-07(C)(1) and PTI P0106053]

f) Testing Requirements

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

a. Emission Limitation:

Fugitive dust emissions shall not exceed 11.68 tons per year from material transfer, aggregate handling, load-in/load-out operations, and wind erosion.

Applicable Compliance Method:

Compliance shall be demonstrated by using the following equations from AP-42, Section 13.2.4 Aggregate Handling and Storage Piles.

$E_t = (E_1 + E_2) x\ CE$

where:

E_t = total fugitive particulate emissions from landfill operations, tpy;
E_1 = emissions from landfill operations, tpy;
E_2 = emission from wind erosion, tpy; and
CE = control efficiency, %.

$E_1 = k \times 0.0032\ [(U/5)^{1.3} / (M/2)^{1.4}] \times T$

where:

U = mean wind speed, mph (assumed 10);
M = material moisture content , % (per Table 13.2.4-1, M=12);
0.0032 = equation constant;
k = particle size multiplier, size 30 microns (0.74); and
T = tonnage handled.

$E_2 = [1.7 \times (s/1.5) \times [(365-p)/235] \times (f/15)] \times A$

where:

s = silt content, % (per Table 13.2.4, s= 9%);
p = # of days with <0.01 inch of precipitation (per Figure 13.2.2-1, p=150 days);

f = % of time wind speed exceeds 12 mph, % (assume 20); and
A = area of landfill that is actively being worked, acres.

b. Emission Limitation:

Visible emissions of non-asbestos fugitive dust (load-in 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 determined by visible 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).

c. Emission Limitation:

CO emissions, from the 2000 ft^3/min combustor, shall not exceed 0.10 lb/mmBtu and 6.6 lbs/hour.

Applicable Compliance Method:

If required, compliance shall be demonstrated in accordance with the methods and procedures specified in 40 CFR Part 60, Appendix A, Method 10.

0.10 lb/mmBtu is a manufacturer's emission factor for this combustor.

Compliance with the hourly emission limitation shall be demonstrated by using the following equation:

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

where:

PPH = emissions, lb/hr;
EF = emission factor, lb/mmBtu;
F = flow rate of LFG to combustor, ft^3/min;
HV = heating value of LFG, 550 Btu/ft^3;
60 = conversion factor, minutes/hour; and
10^6 = conversion factor, Btu/mmBtu.

d. Emission Limitation:

NO_x emissions, from the 2000 ft^3/min combustor, shall not exceed 0.05 lb/mmBtu and 3.3 lbs/hour.

Applicable Compliance Method:

If required, compliance shall be demonstrated in accordance with the methods and procedures specified in 40 CFR Part 60, Appendix A, Method 7.

0.05 lb/mmBtu is a manufacturer's emission factor for this combustor.

Compliance with the hourly emission limitation shall be demonstrated by using the following equation:

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

where:

PPH = emissions, lb/hr;
EF = emission factor, lb/mmBtu;
F = flow rate of LFG to combustor, ft^3/min;
HV = heating value of LFG, 550 Btu/ft^3;
60 = conversion factor, minute/hour; and
10^6 = conversion factor, Btu/mmBtu.

e. Emission Limitation:

SO_2 emissions, from the 2000 ft^3/min combustor, shall not exceed 1.0 lb/hour.

Applicable Compliance Method:

Compliance shall be demonstrated by using the following equation:

$E = (Q \times 60 \times C \times 64 \times 1)/(R \times T \times 10^6)$

where:

E = emission rate, lb/hr;
Q = flow rate of combustor, ft^3/min;
60 = conversion, minutes per hour;
C = concentration of sulfur in LFG, ppmv;
64 = molecular weight of SO_2, lb/lbmole;
1 = pressure, atm;
R = gas constant, 0.7302 atm ft^3/lbmole^{o}R;
T = temperature of LFG, degrees ^{o}R; and
10^6 = conversion factor for ppmv.

f. Emission Limitation:

HCl emissions, from the 2000 ft^3/min combustor, shall not exceed 0.48 lb/hour.

Applicable Compliance Method:

If required, compliance shall be demonstrated in accordance with the methods and procedures specified in 40 CFR Part 60, Appendix A, Method 26.

Compliance shall be demonstrated by using the following equation:

$E = (F \times 60 \times C \times 36.5 \times 1)/(0.7302 \times T \times 10^6)$

where:

E = emission rate, lb/hour;
F = flow rate of combustor, ft^3/min;
60 = conversion factor, minutes/hour;
C = concentration of HCl in LFG, AP-42, Section 2.4 MSW Landfills, uses a default value of 42.0 ppmv;
36.5 = molecular weight, lb/lbmole;
1 = pressure, atm;
0.7302 = gas constant, atm ft^3/lbmole^{o}R);
T = LFG temperature, ^{o}R; and
10^6 = conversion factor for ppmv.

g. Emission Limitation:

PM_{10} emissions, from the 2000 ft^3/min combustor, shall not exceed 1.12 lbs/hour.

Applicable Compliance Method:

If required, compliance shall be demonstrated in accordance with the methods and procedures specified in 40 CFR Part 60, Appendix A, Method 5.

Compliance shall be demonstrated by using the following equation:

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

where:

E = emission rate, lb/hr;
EF = emission factor from AP-42, Section 2.4 MSW Landfills, 17 lb/10^6 ft^3 of CH_4;
F = flow rate of combustor, ft^3/min;
PM = fraction of LFG that is CH_4, 0.55; and
60 = conversion factor, minute/hour.

h. Emission Limitation:

CO emissions, from each 5500 ft^3/min combustor, shall not exceed 0.10 lb/mmBtu and 18.2 lbs/hour.

Applicable Compliance Method:

If required, compliance shall be demonstrated in accordance with the methods and procedures specified in 40 CFR Part 60, Appendix A, Method 10.

0.10 lb CO/mmBtu is a manufacturer's emission factor for this combustor.

Compliance with the hourly emission limitation shall be demonstrated by using the following equation:

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

where:

PPH = emissions, lb/hr;
EF = emission factor, lb/mmBtu;
F = flow rate of LFG to combustor, ft^3/min;
HV = heating value of LFG, 550 Btu/ft^3;
60 = conversion factor, minute/hour; and
10^6 = conversion factor, Btu/mmBtu.

i. Emission Limitation:

NO_x emissions, from each 5500 ft^3/min combustor, shall not exceed 0.05 lb/mmBtu and 9.08 lbs/hour.

Applicable Compliance Method:

If required, compliance shall be demonstrated in accordance with the methods and procedures specified in 40 CFR Part 60, Appendix A, Method 7.

0.05 lb/mmBtu is a manufacturer's emission factor for this combustor.

Compliance with the hourly emission limitation shall be demonstrated by using the following equation:

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

where:

PPH = emissions, lb/hr;
EF = emission factor, lb/mmBtu;
F = flow rate of LFG to combustor, ft^3/min;
HV = heating value of LFG, 550 Btu/ft^3;
60 = conversion factor, minute/hour; and
10^6 = conversion factor, Btu/mmBtu.

j. Emission Limitation:

SO_2 emissions, from each 5500 ft^3/min combustor, shall not exceed 2.76 lbs/hour.

Applicable Compliance Method:

Compliance shall be demonstrated by using the following equation:

$E = (Q \times 60 \times C \times 64\ 1)/(R \times T \times 10^6)$

where:

E = emission rate, lb/hr;
Q = flow rate of combustor, ft^3/min;
60 = conversion, minutes per hour;
C = concentration of sulfur in LFG, ppmv;
64 = molecular weight of SO_2, lb/lbmole;
1 = pressure, atm;
R = gas constant, 0.7302 atm ft^3/lbmole^oR;
T = temperature of LFG, degrees ^oR; and
10^6 = conversion factor for ppmv.

k. Emission Limitation:

HCl emissions, from each 5500 ft^3/min combustor, shall not exceed 1.33 lbs/hour.

Applicable Compliance Method:

If required, compliance shall be demonstrated in accordance with the methods and procedures specified in 40 CFR Part 60, Appendix A, Method 26.

Compliance shall be demonstrated by using the following equation:

$E = (F \times 60 \times C \times 36.5 \times 1)/(0.7302 \times T \times 10^6)$

where:

E = emission rate, lb/hour;
F = flow rate of combustor, ft^3/min;
60 = conversion factor, minutes/hour;
C= concentration of HCl in LFG, AP-42, Section 2.4 MSW Landfills, uses a default value of 42.0 ppmv;
36.5 = molecular weight, lb/lbmole;
1 = pressure, atm;
0.7302 = gas constant, atm ft^3/lbmole^oR);
T = LFG Temperature, ^oR; and
10^6 = conversion factor for ppmv.

l. Emission Limitation:

PM_{10} emissions, from each 5500 ft^3/min combustor, shall not exceed 3.09 lbs/hour.

Applicable Compliance Method:

If required, compliance shall be demonstrated in accordance with the methods and procedures specified in 40 CFR Part 60, Appendix A, Method 5.

Compliance shall be demonstrated by using the following equation:

E = EF x F x PM x 60

where:

E = emission rate, lb/hr;
EF = emission factor from AP-42, Section 2.4 MSW Landfills, 17 lb/10^6 ft^3 of CH_4;
F = flow rate of combustor, ft^3/min;
PM = fraction of LFG that is CH_4, 0.55; and
60 = conversion factor, minute/hour.

m. Emission Limitations:

Per control device:

2000 ft^3/min combustor

28.91 tons of CO/year.
14.45 tons of NO_X/year.
4.38 tons of SO_2/year
2.11 tons of HCl/year.
4.91 tons of PM_{10}/year

Per 5500 ft^3/min combustor

79.50 tons of CO/year
39.75 tons of NO_X/year
12.09 tons of SO_2/year
5.84 tons of HCl/year
13.52 tons of PM_{10}/year

Applicable Compliance Method:

The annual emission limitations are based on the hourly emission limitations multiplied by 8760 hours per year and divided by 2000 pounds per ton. Therefore, compliance with the annual emission limitations are assumed provided compliance with the hourly emission limitations is maintained.

n. Emission Limitation:

Fugitive NMOC emissions shall not exceed 168.09 tons per year.

Applicable Compliance Method:

Compliance shall be demonstrated based on the following equation:

E = F x (1-PC) x 86.16 x 1/(0.7302 x T x 2000)

where:

E = emissions of fugitive NMOC, TPY;
F = total flowrate of NMOC at current year, as predicted by LANDGEM

model,ft^3/yr;
PC = percent capture; summation of NMOC collected (ft^3/yr) divided by predicted generation rate of NMOC from LANDGEM model (ft^3/yr);
86.16 = molecular weight of NMOC, lb/lbmole;
1 = pressure, atm;
0.7302 = gas constant, atm ft^3/lbmole^{o}R;
T = LFG Temperature, ^{o}R; and
2000 = conversion factor, lbs/ton.

o. Emission Limitation:

Fugitive VOC emissions shall not exceed 65.56 tons per year.

Applicable Compliance Method:

Compliance shall be demonstrated based on the following equation:

E = [F x (1-PC) x 86.16 x 1/(0.7302 x T x 2000)] x 0.39

where:

E = emissions of fugitive NMOC, TPY;
F = total flowrate of NMOC at current year, as predicted by LANDGEM model, ft^3/yr;
PC =percent capture; summation of NMOC collected (ft^3/yr) divided by predicted generation rate of NMOC from LANDGEM model (ft^3/yr);
86.16 = molecular weight of NMOC, lb/lbmole;
1 = pressure, atm;
0.7302 = gas constant, atm ft^3/lbmole^{o}R;
T = LFG Temperature, ^{o}R;
2000 = conversion factor, lbs/ton; and
0.39 =Decimal fraction of NMOC that is considered to be VOC, per AP-42, Section 2.4, Municipal Solid Waste Landfills, Table 2.4-2, superscript c, dated November, 1998.

p. Emission Limitation:

Fugitive HAP emissions shall not exceed 32.95 tons per year.

Applicable Compliance Method:

Compliance shall be demonstrated based on the following equation:

Per AP-42, Section 2.4 MSW Landfills, Table 2.4-2 (below Table in writing), it is estimated that 39% of NMOC is a VOC this value was arrived at by the following manner [235 ppmv of VOC/595 ppmv of LFG = 0.395 = 0.39= 39%]. Summation of ppmv of HAPs = 116 ppmv. Percentages: HAP = 116/595 = 0.19 =19% of NMOC.

E = F x (1-PC) x 86.16 x 1/(0.7302 x T x 2000) x 0.196

where:

E = emissions of fugitive HAP, TPY;
F = total flowrate of NMOC at current year, as predicted by LANDGEM model, ft^3/yr;
PC = percent capture; summation of NMOC collected (ft^3/yr) divided by predicted generation rate of NMOC from LANDGEM model (ft^3/yr);
86.16 = molecular weight of NMOC, lb/lbmole;
1 = pressure, atm;
0.7302 = gas constant, atm ft^3/lbmole^oR;
T = LFG Temperature, ^oR;
2000 = conversion factor, lbs/ton; and
0.196 = fraction of NMOC that is a HAP.

q. Emission Limitation:

Fugitive CH_4 emissions shall not exceed 26,289 tons per year.

Applicable Compliance Method:

Compliance shall be demonstrated based on the following equation:

E = F x (1-PC) x 16 x 1/(0.7302 x T x 2000)

where:

E = emissions of fugitive CH_4, TPY;
F = total flowrate of CH_4 at current year, as predicted by LANDGEM model, ft^3/yr;
PC = percent capture; summation of CH_4collected (ft^3/yr) divided by predicted generation rate of CH_4 from LANDGEM model (ft^3/yr);
16 = molecular weight of NMOC, lb/lbmole;
1 = pressure, atm;
0.7302 = gas constant, atm ft^3/lbmole^oR;
T = LFG Temperature, ^oR; and
2000 = conversion factor, lbs/ton.

r. Emission Limitation:

Visible emissions 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.

[Authority for term: OAC rule 3745-77-07(C)(1) and PTI P0106053]

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

60.754 (a)	Calculating NMOC emissions
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

g) Miscellaneous Requirements

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

60.754 (c)	PSD applicability

3. F004, Soil Inoculation

Operations, Property and/or Equipment Description:

Soil inoculation process

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)(6) through d)(9) and e)(2)

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) PTI P0107614	Volatile organic compound (VOC) emissions shall not exceed 18.0 tons per year.
b.	OAC rule 3745-31-05(A)(3), as effective 11/30/2001 PTI P0107614	Fugitive particulate emissions shall not exceed 0.02 ton per year. Fugitive particulate emissions shall not exceed 5% opacity, as a 3-minute average. See b)(2)a.
c.	OAC rule 3745-31-05(A)(3), as effective 12/1/2006 PTI P0107614	See b)(2)b.
d.	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).
e.	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 has satisfied the Best Available Technology (BAT) requirements pursuant to OAC paragraph 3745-31-05(A)(3), as effective November 30, 2001, in this permit. On December 1, 2006, paragraph (A)(3) of OAC rule 3745-31-05 was revised to conform to ORC changes effective August 3, 2006 (S.B. 265 changes), such that BAT is no longer required by State regulations for NAAQS pollutant less than ten tons per year. However, that rule revision has not yet been approved by U.S. EPA as a revision to Ohio's State Implementation Plan (SIP). Therefore, until the SIP revision occurs and the U.S. EPA approves the revisions to OAC rule 3745-31-05, the requirement to satisfy BAT still exists as part of the federally-approved SIP for Ohio. Once U.S. EPA approves the December 1, 2006 version of 3745-31-05, then these emission limits/control measures no longer apply.

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

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

c) Operational Restrictions

(1) The total throughput of petroleum contaminated soils (PCS) shall not exceed 30,000 tons per year.

[Authority for term: OAC rule 3745-77-07(A)(1) and PTI P0107614]

(2) The Total Petroleum Hydrocarbon (TPH) concentration processed in this emissions unit shall not exceed 50,000 parts per million (ppm), and the volatile organic compound (VOC) concentration shall not exceed 10,000 ppm

[Authority for term: OAC rule 3745-77-07(A)(1) and PTI P0107614]

(3) This facility shall employ tarps in such a manner that will completely cover the material being processed and minimize the amount of time that the PCS are exposed to the ambient air. Per the permit application, the total permitted tarped area (block) shall not exceed 10,000 square feet.

[Authority for term: OAC rule 3745-77-07(A)(1) and PTI P0107614]

This facility shall inoculate each batch of PCS material with the appropriate amount of natural microbial materials in order to efficiently reduce the TPH of the PCS material to the "re-use" level within the maximum 90-day processing period. Per the permit application, at least 1 gallon of inoculant per cubic yard of PCS shall be employed.

[Authority for term: OAC rule 3745-77-07(A)(1) and PTI P0107614]

(4) This facility shall appropriately process PCS loaded trucks in a timely manner in order to minimize and/or eliminate all generated fugitive VOC emissions prior to being unloaded into the soil processing area. Per the permit application, the approximate time to unload, spread, and tarp each load is 15 minutes.

[Authority for term: OAC rule 3745-77-07(A)(1) and PTI P0107614]

(5) All trucks carrying PCS materials shall employ a cover in order to minimize and/or eliminate the release of fugitive particle emissions (PE) and/or VOC emissions.

[Authority for term: OAC rule 3745-77-07(A)(1) and PTI P0107614]

(6) Per the permit application, the soil shall be piled no higher than 12 inches.

[Authority for term: OAC rule 3745-77-07(A)(1) and PTI P0107614]

d) Monitoring and/or Recordkeeping Requirements

(1) This facility shall maintain annual records of the amount of PCS that is processed, in tons.

[Authority for term: OAC rule 3745-77-07(C)(1) and PTI P0107614]

(2) This facility shall maintain the following records relating to each batch of PCS material processed:

a. the date PCS batch material was received at the facility;

b. the date PCS batch material was unloaded into the processing area;

c. the date the PCS batch materials were inoculated;

d. the pre-treatment TPH level, in parts per million (ppm);

e. the pre-treatment VOC level, in parts per million (ppm);

f. the amount of PCS material being processed, in tons;

g. the amount of inoculated natural microbial materials, in pounds, gallons, or tons, whichever is the most appropriate for this type of operation;

h. the date the PCS batch material is tested and determined to meet “re-use” action levels;

i. the total number of days the soil was treated;

j. the final post-treatment TPH level, parts per million; and

k. the number of tarped areas (blocks) treated each year.

[Authority for term: OAC rule 3745-77-07(C)(1) and PTI P0107614]

(3) The permittee shall perform daily checks, when the emissions unit is processing PCS materials. The daily checks shall note the following in the operations log:

a. the date of the check;

b. the general condition of the tarp and/or tarps being employed;

c. any tears, rips, and/or separation on/or between the tarp and/or tarps being employed, in which the PCS materials are exposed to the ambient air;

d. any corrective actions taken to eliminate the exposure of PCS materials to the ambient air; and

e. the date that the corrective action was taken.

These daily checks must occur on consecutive days for the first 14 days of each PCS batch. If no tarp tears, rips, and/or separation is noted, the facility can reduce the inspection frequency to once per week during normal facility operation, i.e., exclude weekends and holidays. If any tarp tears, rips, and/or separation is noted, the facility will repair the tarp(s), and inspection frequency reverts to daily.

[Authority for term: OAC rule 3745-77-07(C)(1) and PTI P0107614]

(4) The permittee shall maintain records on the following information regarding any processing of PCS that takes more than 30 days to remediate the soil to “re-use” standards:

a. the amount of PCS processed, in tons;

b. the amount of inoculated natural microbial materials, in pounds, gallons, or tons, whichever is the most appropriate for this type of operation; and

c. a summary of the operation including any possible reasons for the extended processing periods and possible steps to be taken in the future that would help assure efficient digestion and minimize evaporation of the petroleum contaminants.

[Authority for term: OAC rule 3745-77-07(C)(1) and PTI P0107614]

(5) Prior to removing the soil from the processing operation, the permittee shall sample and analyze the soil to ensure that the concentrations of “chemicals of concern” are not exceeding the levels as indicated in Table 1 of OAC rule 1301:7-9-16(D)(1). These grab samples shall be collected in accordance with the sampling requirements of OAC rule 1301:7-9-17(F) and these grab samples shall be analyzed in accordance to OAC rule 1301:7-9-17(G) and 1301:7-9-13(H)(1)(c).

Once the concentration of the "chemicals of concern" in the soil processed are determined to no longer exceed the standards listed in Table 1 of OAC rule 1301:7-9-16(D)(1), the soil will be determined to be "re-use" soil and may be used according to OAC rule 1301:7-9-16(B)(9).

[Authority for term: OAC rule 3745-77-07(C)(1) and PTI P0107614]

(6) The PTI application for this/these emissions unit(s), F004, was evaluated based on the actual materials and the design parameters of the emissions unit's(s') exhaust system, as specified by the permittee. The "Toxic Air Contaminant Statute", ORC 3704.03(F), was applied to this/these emissions unit(s) for each toxic air contaminant listed in OAC rule 3745-114-01, using data from the permit application; and modeling was performed for each toxic air contaminant(s) emitted at over one ton per year using an air dispersion model such as SCREEN3, AERMOD, or ISCST3, or other Ohio EPA approved model. The predicted 1-hour maximum ground-level concentration result(s) from the approved air dispersion model, was compared to the Maximum Acceptable Ground-Level Concentration (MAGLC), calculated as described in the Ohio EPA guidance document entitled "Review of New Sources of Air Toxic Emissions, Option A", as follows:

a. the exposure limit, expressed as a time-weighted average concentration for a conventional 8-hour workday and a 40-hour workweek, for each toxic compound(s) emitted from the emissions unit(s), (as determined from the raw materials processed and/or coatings or other materials applied) has been documented from one of the following sources and in the following order of preference (TLV was and shall be used, if the chemical is listed):

   i. threshold limit value (TLV) from the American Conference of Governmental Industrial Hygienists (ACGIH) "Threshold Limit Values for Chemical Substances and Physical Agents Biological Exposure Indices"; or

   ii. STEL (short term exposure limit) or the ceiling value from the American Conference of Governmental Industrial Hygienists (ACGIH) "Threshold Limit Values for Chemical Substances and Physical Agents Biological Exposure Indices"; the STEL or ceiling value is multiplied by 0.737 to convert the 15-minute exposure limit to an equivalent 8-hour TLV.

b. The TLV is divided by ten to adjust the standard from the working population to the general public (TLV/10).

c. This standard is/was then adjusted to account for the duration of the exposure or the operating hours of the emissions unit(s), i.e., "X" hours per day and "Y" days per week, from that of 8 hours per day and 5 days per week. The resulting calculation was (and shall be) used to determine the Maximum Acceptable Ground-Level Concentration (MAGLC):

$$TLV/10 \times 8/X \times 5/Y = 4\ TLV/XY = MAGLC$$

d. The following summarizes the results of dispersion modeling for the significant toxic contaminants (emitted at 1 or more tons/year) or worst case toxic contaminant(s):

Toxic Contaminant: Xylene

TLV (mg/m3): 433.5

Maximum Hourly Emission Rate (lbs/hr): 44.1

Predicted 1-Hour Maximum Ground-Level Concentration (ug/m^3): 2610

MAGLC (ug/m^3): 10320

The permittee, has demonstrated that emissions of xylene, from emissions unit(s) F004, is calculated to be less than eighty per cent of the maximum acceptable ground level concentration (MAGLC); any new raw material or processing agent shall not be applied without evaluating each component toxic air contaminant in accordance with the "Toxic Air Contaminant Statute", ORC 3704.03(F).

[Authority for term: ORC 3704.03(F), OAC rule 3745-77-07(C)(1) and PTI P0107614]

(7) Prior to making any physical changes to or changes in the method of operation of the emissions unit(s), that could impact the parameters or values that were used in the predicted 1-hour maximum ground-level concentration, the permittee shall re-model the change(s) to demonstrate that the MAGLC has not been exceeded. Changes that can affect the parameters/values used in determining the 1-hour maximum ground-level concentration include, but are not limited to, the following:

a. changes in the composition of the materials used or the use of new materials, that would result in the emission of a new toxic air contaminant with a lower Threshold Limit Value (TLV) than the lowest TLV previously modeled;

b. changes in the composition of the materials, or use of new materials, that would result in an increase in emissions of any toxic air contaminant listed in OAC rule 3745-114-01, that was modeled from the initial (or last) application; and

c. physical changes to the emissions unit(s) or its/their exhaust parameters (e.g., increased/ decreased exhaust flow, changes in stack height, changes in stack diameter, etc.).

If the permittee determines that the "Toxic Air Contaminant Statute" will be satisfied for the above changes, the Ohio EPA will not consider the change(s) to be a "modification" under OAC rule 3745-31-01 solely due to a non-restrictive change to a parameter or process operation, where compliance with the "Toxic Air Contaminant Statute", ORC 3704.03(F), has been documented. If the change(s) meet(s) the definition of a "modification", the permittee shall apply for and obtain a final PTI prior to the change. The Director may consider any significant departure from the operations of the emissions unit, described in the permit application, as a modification that results in greater emissions than the emissions rate modeled to determine the ground level

concentration; and he/she may require the permittee to submit a permit application for the increased emissions.

[Authority for term: ORC 3704.03(F), OAC rule 3745-77-07(C)(1) and PTI P0107614]

(8) The permittee shall collect, record, and retain the following information for each toxic evaluation conducted to determine compliance with the "Toxic Air Contaminant Statute", ORC 3704.03(F):

a. a description of the parameters/values used in each compliance demonstration and the parameters or values changed for any re-evaluation of the toxic(s) modeled (the composition of materials, new toxic contaminants emitted, change in stack/exhaust parameters, etc.);

b. the Maximum Acceptable Ground-Level Concentration (MAGLC) for each significant toxic contaminant or worst-case contaminant, calculated in accordance with the "Toxic Air Contaminant Statute", ORC 3704.03(F);

c. a copy of the computer model run(s), that established the predicted 1-hour maximum ground-level concentration that demonstrated the emissions unit(s) to be in compliance with the "Toxic Air Contaminant Statute", ORC 3704.03(F), initially and for each change that requires re-evaluation of the toxic air contaminant emissions; and

d. the documentation of the initial evaluation of compliance with the "Toxic Air Contaminant Statute", ORC 3704.03(F), and documentation of any determination that was conducted to re-evaluate compliance due to a change made to the emissions unit(s) or the materials applied.

[Authority for term: ORC 3704.03(F), OAC rule 3745-77-07(C)(1) and PTI P0107614]

(9) The permittee shall maintain a record of any change made to a parameter or value used in the dispersion model, used to demonstrate compliance with the "Toxic Air Contaminant Statute", ORC 3704.03(F), through the predicted 1-hour maximum ground-level concentration. The record shall include the date and reason(s) for the change and if the change would increase the ground-level concentration.

[Authority for term: ORC 3704.03(F), OAC rule 3745-77-07(C)(1) and PTI P0107614]

e) Reporting Requirements

(1) The permittee shall submit quarterly deviation (excursion) reports that identify the following:

a. all exceedances of TPH concentration of 50,000 parts per million for PCS batch material; and

b. allexceedances of VOC concentrations of 10,000 parts per million for PCS batch material.

[Authority for term: OAC rule 3745-77-07(C)(1) and PTI P0107614]

(2) The permittee shall report any changes made to a parameter or value used in the dispersion model, that was used to demonstrate compliance with the Toxic Air Contaminant Statute, ORC 3704.03(F), through the predicted 1-hour maximum ground-level concentration, in the quarterly deviation (excursion) reports. If no changes to the emissions, emissions unit(s), or the exhaust stack have been made, then the report shall include a statement to this effect.

[Authority for term: OAC rule 3745-77-07(C)(1) and PTI P0107614]

(3) The permittee shall submit quarterly reports that:

a. identify all days in which any tears, rips, and/or separation on/or between the tarp and/or tarps being employed, in which the PCS materials are exposed to the ambient air are witnessed;

b. any corrective actions taken to eliminate the exposure of PCS materials to the ambient air;

c. the day that corrective action was taken; and

d. the total number of days that PCS materials were exposed to the ambient air

[Authority for term: OAC rule 3745-77-07(C)(1) and PTI P0107614]

(4) The permittee shall submit quarterly reports that :

a. identify all incidents in which the processing period for cleaning PCS exceeded 90 days;

b. a summary of the possible causes for the extended processing period; and

c. possible steps that will be taken to assure proper digestion by the microbes and minimize the evaporation of the petroleum contaminant.

[Authority for term: OAC rule 3745-77-07(C)(1) and PTI P0107614]

f) Testing Requirements

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

a. <u>Emission Limitation</u>:

VOC emissions shall not exceed 18.0 tons per year.

<u>Applicable Compliance Method</u>:

Compliance shall be demonstrated by using the following equation:

$E = 0.25 \times B$

where:

E = emission of VOC, ton per year;
0.25 = emission factor per block, based on area of PCS inoculated, depth of PCS inoculated, time to get PCS under tarp; and
B = blocks (tarped areas) treated per year.

b. Emission Limitation:

Fugitive particulate emissions shall not exceed 0.02 ton per year.

Applicable Compliance Method:

Compliance shall be demonstrated by using the following equation from AP-42, Section 13.2.4, Aggregate Handling and Storage Piles:

$E = k \times 0.0032 \times [(U/5)^{1.3}/(M/2)^{1.4}] \times (S/2000) \times H$

where:

E = emissions, lb PM/ton PCS;
k = constant for PM less than 30 microns in diameter, 0.74;
U = mean wind speed (assume 10 mph);
M = material moisture content (assume 12%, from AP-42, Table 13.2.4-1 for cover material at municipal solid waste landfills);
S = amount of PCS processed, tons per year;
2000 = conversion factor, pounds per ton; and
H = number of times the soil was load-in, load-out.

c. Emission Limitation:

Fugitive particulate emissions shall not exceed 5% opacity, as a 3-minute average.

Applicable Compliance Method:

If required, compliance shall be determined by visible 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 A 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).

[Authority for term: OAC rule 3745-77-07(C)(1) and PTI P0107614]

g) Miscellaneous Requirements

(1) None.