Ohio Environmental Protection Agency
John R. Kasich, Governor
Mary Taylor, Lt. Governor
Scott J. Nally, Director

10/25/2011

Certified Mail

Facility ID: 0546015002
Permit Number: P0106059
County: Logan

Mr. Michael Kotyk
Bellefontaine Gas Producers, LLC
425 South Main St., Suite 201
Ann Arbor, MI 48104

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

Dear Permit Holder:

Enclosed is the Ohio EPA Preliminary Proposed Title V permit that was issued in draft form on 2/22/2011. 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 "Issued Air Pollution Control Permits" link. 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, Southwest District Office
401 East Fifth Street
Dayton, OH 45402

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, Southwest District Office

Response to Comments

Response to comments for: Title V Permit

Facility ID:	0546015002
Facility Name:	Bellefontaine Gas Producers, LLC
Facility Description:	Landfill Gas Power Plant
Facility Address:	2946 US Route 68 North Bellefontaine, OH 43311 Logan County
Permit #:	P0106059, Initial
A public notice for the draft permit issuance was published in the Ohio EPA Weekly Review and appeared in the Bellefontaine Examiner on 02/25/2011. The comment period ended on 03/27/2011.	
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: BAT requirements under OAC rule 3745-31-05 (A)(3) for SO2, VOC, and PM10**

   Comment: ***Additional Terms and Conditions (b) states "The BAT (Best Available Technology) requirements under OAC rule 3745-31-05(A)(3) do not apply to the SO2, VOC, and PM10 emissions from this air contaminant source since the uncontrolled potential to emit for SO2, VOC, and PM10 are each less than ten tons per year." Because there is currently no exemption from BAT in the Ohio State Implementation Plan (SIP) for emissions less than ten tons per year, this term should not be in the permit. Furthermore, this term contradicts the Additional Terms and Conditions (c), which correctly explains that BAT is still required by the SIP for emissions less than ten tons per year. (Submitted by Pamela Blakley of USEPA Region V via letter on March 22, 2011 and Kaushal Gupta of USEPA Region V via email on March 22, 2011)***

   Response: The following has been added to term b)(2)b.:

"This 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, (SIP). This is following Ohio EPA's guidance to provide clarification.

Term b)(1) c. was also clarified to say "OAC paragraph 3745-31-05(A)(3)(a)(ii), as effective 12/01/06."

Finally, term b)(1)d. was clarified to refer to term b)(2)c.

2. **Topic: Emissions C&DD Waste and H_2S Concerns**

   a. **Comment:** ***Please explain whether this facility processes landfill gas from landfills that accept construction and demolition waste. If the answer is yes, then there is a chance that the landfill gas contains hydrogen sulfide (H2S) in significant quantity. The draft permit does not contain an emissions limit for H2S. (Submitted by Pamela Blakley of USEPA Region V via letter on March 22, 2011 and Kaushal Gupta of USEPA Region V via email on March 22, 2011)***

   b. Response: The landfill that BGP obtains its landfill gas from is Cherokee Run Landfill. Yes, this landfill does accept a relatively small volume of construction and demolition waste. Information on Ohio EPA's website shows that most Municipal Solid Waste (MSW) landfills do accept C&DD waste. Hydrogen sulfide (H2S) is a concern with certain types of C&DD waste, particularly with gypsum wallboard. The LANDGEM model was run for this landfill in 2007, predicting emissions in order to complete their PTI 05-14428. According to the model, the H2S emissions were only .004% of the total landfill gas emitted, or 3 to 6 tons/year. Bellefontaine Gas Producers (BGP) had also performed calculations, and had made the assumption that during combustion of landfill gas in an IC engine, any H_2S is converted to SO_xduring the oxidation reaction. This is also consistent with AP-42, section 2.4.4.2. BGP has indicated that the combustion temperature of the IC engines is sufficient for the oxidation reaction to occur (September 30, 2011 Letter from Mr. Thomas Durham of DTE Biomass Energy (DTE) to Ms. Lynne Martz of Ohio EPA). DTE has also pointed out that BGP has included combustion temperature monitoring in a recent modification to their installation permit (P0107266, effective 1/6/11).

   The method of compliance demonstration will be based on the landfill annual waste acceptance rate and combustion temperature monitoring. OEPA also reserves the right to require testing, if necessary to demonstrate compliance.

   The local solid waste management districts and Ohio's solid waste rules (Ohio Revised Code ORC 3714.081) do not allow for the acceptance of pulverized C&DD materials There seems to be the greatest H_2S concern from pulverized (beyond recognition) C&DD materials. Also, Ohio's rules for C&DD waste (ORC 3714.02) specifically require facilities to have a contingency plan in place to prevent gases like H2S from becoming a nuisance or pose a threat to public health. At this time, USEPA is not requiring an H2S limit for this type of facility. (This was covered in a response email from Kaushal Gupta of USEPA Region V to Ms. Lynne Martz of Ohio EPA dated 8/31/11.). Based on the above information, it is not believed that H_2S is a concern for this facility, and it is believed that the SO_2 limit accounts for the H_2S generated in the landfill gas.

3. **Topic:NSPS Subpart JJJJ Applicability for NOx and CO**

Comment:*New Source Performance Standards Subpart JJJJ contains emissions limits for NOx, CO, and VOC; however, the draft permit only includes a VOC limit from Subpart JJJJ. If Nox and CO limits from JJJJ are also applicable, they should also be included in the permit. (Submitted by Pamela Blakley of USEPA Region V via letter on March 22, 2011 and Kaushal Gupta of USEPA Region V via email on March 22, 2011)*

Response: The emission limits for NOx and CO from Subpart JJJJ are applicable. There are more stringent NOx and CO emissions limits established under BAT 3745-31-05(A)(3) that were established in PTI Administrative Modification (P0107266). The NOx limit is 0.60 grams per HP and the CO limit is 3.0 grams per HP.

We have added the following language to term b)(1)i. for 40 CFR 60, Subpart JJJJ: The emission limits established by this rule for NOx and CO are less stringent than the emission limitations established for NOx and CO pursuant to OAC rule 3745-31-05(A)(3).

Ohio | Environmental Protection Agency

PRELIMINARY PROPOSED

Division of Air Pollution Control
Title V Permit
for
Bellefontaine Gas Producers, LLC

Facility ID:	0546015002
Permit Number:	P0106059
Permit Type:	Initial
Issued:	10/25/2011
Effective:	To be entered upon final issuance
Expiration:	To be entered upon final issuance

Ohio Environmental Protection Agency

Division of Air Pollution Control
Title V Permit
for
Bellefontaine Gas Producers, LLC

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Authorization

Facility ID: 0546015002
Facility Description: Landfill Gas Power Plant
Application Number(s): A0038897
Permit Number: P0106059
Permit Description: Landfill Gas Power Plant consisting of three 2233 Hp (14.82 MMBtu/1600kW) Internal Combustion (IC) Engine Gen Sets. Landfill gas (LFG) is pretreated (using an inlet/outlet 2 stage 10 micron filter system) prior to being burned in the IC engines. This is a first issue Title V operating permit for the facility.
Permit Type: Initial
Issue Date: 10/25/2011
Effective Date: To be entered upon final issuance
Expiration Date: To be entered upon final issuance
Superseded Permit Number:

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

Bellefontaine Gas Producers, LLC
2946 US Route 68 North
Bellefontaine, OH 43311

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

Ohio EPA DAPC, Southwest District Office
401 East Fifth Street
Dayton, OH 45402
(937)285-6357

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, Southwest 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 (540 days) and no later than 6 months (180 days) 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

(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

(Authority for term: ORC 3704.036(A))

2. Monitoring and Related Record Keeping and Reporting Requirements

a) Except as may otherwise be provided in the terms and conditions for a specific emissions unit (i.e., in section C. Emissions Unit Terms and Conditions of this Title V permit), the permittee shall maintain records that include the following, where applicable, for any required monitoring under this permit:

(1) The date, place (as defined in the permit), and time of sampling or measurements.

(2) The date(s) analyses were performed.

(3) The company or entity that performed the analyses.

(4) The analytical techniques or methods used.

(5) The results of such analyses.

(6) The operating conditions existing at the time of sampling or measurement.

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

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

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

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

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

Any malfunction, as defined in OAC rule 3745-15-06(B)(1), shall be promptly reported to the Ohio EPA in accordance with OAC rule 3745-15-06. In addition, to fulfill the OAC rule 3745-77-07(A)(3)(c) deviation reporting requirements for malfunctions, written reports that identify each malfunction that occurred during each calendar quarter (including each malfunction reported only verbally in accordance with OAC rule 3745-15-06) shall be submitted (i.e., postmarked) 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 scheduled maintenance, 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 promptly made to the appropriate Ohio EPA District Office or local air agency. Except as provided below, the written reports shall be submitted (i.e., postmarked) 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 (i.e., postmarked) to the appropriate Ohio EPA District Office or local air agency 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."

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

(5) Reports of any required monitoring and/or record keeping information shall be submitted to Ohio EPA DAPC, Southwest District Office.

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

3. 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) The permittee must comply with all terms and conditions of this permit. Any noncompliance with the federally enforceable terms and conditions of this permit constitutes a violation of the Act, and is grounds for enforcement action or for permit revocation, revocation and reissuance, or modification, or for denial of a permit renewal application.

b) It shall not be a defense for the permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the federally enforceable terms and conditions of this permit.

c) This permit may be modified, reopened, revoked, or revoked and reissued, for cause, in accordance with Standard Term and Condition 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.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; orthe 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

(2) 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 contaminent sources once this permit ceases to be enforceable. The permittee shall comply with any residual requirements, such as quarterly deviation reports, semi-annual deviation reports, and annual compliance certifications covering the period during which this Title V permit was enforceable. All records relating to this permit must be maintained in accordance with law.

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

8. Fees

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

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

9. Marketable Permit Programs

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

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

10. Reasonably Anticipated Operating Scenarios

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

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

11. Reopening for Cause

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

a) Additional applicable requirements under the Act become applicable to one or more emissions units covered by this permit, and this permit has a remaining term of three or more years. Such a reopening shall be completed not later than eighteen (18) months after promulgation of the applicable requirement. No such reopening is required if the effective date of the requirement is later than the date on which the permit is due to expire, unless the original permit or any of its terms and conditions has been extended pursuant to paragraph (E)(1) of OAC rule 3745-77-08.

b) This permit is issued to an affected source under the acid rain program and additional requirements (including excess emissions requirements) become applicable. Upon approval by the Administrator, excess emissions offset plans shall be deemed to be incorporated into the permit, and shall not require a reopening of this permit.

c) The Director of the Ohio EPA or the Administrator of the U.S. EPA determines that the federally applicable requirements in this permit are based on a material mistake, or that inaccurate statements were made in establishing the emissions standards or other terms and conditions of this permit related to such federally applicable requirements.

d) The Administrator of the U.S. EPA or the Director of the Ohio EPA determines that this permit must be revised or revoked to assure compliance with the applicable requirements.

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

12. Federal and State Enforceability

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

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

13. Compliance Requirements

a) Any document (including reports) required to be submitted and required by a federally applicable requirement in this Title V permit shall include a certification by a responsible official that, based on information and belief formed after reasonable inquiry, the statements in the document are true, accurate, and complete.

b) Upon presentation of credentials and other documents as may be required by law, the permittee shall allow the Director of the Ohio EPA or an authorized representative of the Director to:

(1) At reasonable times, enter upon the permittee's premises where a source is located or the emissions-related activity is conducted, or where records must be kept under the conditions of this permit.

(2) Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit, subject to the protection from disclosure to the public of confidential information consistent with paragraph (E) of OAC rule 3745-77-03.Inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit.

(3) 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 appropriate Ohio EPA District Office or local air agency 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 appropriate Ohio EPA District Office or local air agency) 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 (i.e., postmarked) on or before April 30th of each year during the permit term.

(2) Compliance certifications shall include the following:

a. An identification of each term or condition of this permit that is the basis of the certification.

b. The permittee's current compliance status.

c. Whether compliance was continuous or intermittent.

d. The method(s) used for determining the compliance status of the source currently and over the required reporting period.

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 appropriate Ohio EPA District Office or local air agency 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 appropriate District Office of the Ohio EPA or local air agency 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 Fed. Reg. 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 has 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.

No emissions unit certified by the responsible official as being permanently shut down may resume operation without first applying for and obtaining a permit to install pursuant to OAC Chapter 3745-31.

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

23. Title VI Provisions

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

a) Persons opening 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 the appropriate Ohio EPA District Office or local air agency.

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 appropriate Ohio EPA District Office or local air agency. 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 (i.e., postmarked) 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.)Records Retention Requirements Under State Law Only

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

25. 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))

26. Scheduled Maintenance/Malfunction Reporting

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 appropriate Ohio EPA District Office or local air

agency 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).

27. Permit Transfers

Any transferee of this permit shall assume the responsibilities of the prior permit holder. The appropriate Ohio EPA District Office or local air agency must be notified in writing of any transfer of this permit.

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

28. 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 (i.e., postmarked) 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 potentials to emit; or

c) where the company's responsible official has certified that an emissions unit has been permanently shut down.

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

   a) None.

3. This facility is subject to 40 CFR Part 60, Subpart JJJJ, New Source Performance Standards: Stationary Spark Ignition Internal Combustion Engines. The permittee shall comply with all applicable requirements of 40 CFR Part 60, Subpart JJJJ. The permittee shall also comply with all applicable requirements of 40 CFR Part 60, Subpart A (General Provisions) as identified in Table 3 of 40 CFR Part 63, Subpart JJJJ. Compliance with all applicable requirements shall be achieved by the dates set forth in 40 CFR Part 60 Subpart JJJJ and Subpart A. The NSPS 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 the appropriate Ohio EPA District office or local air agency.

C. Emissions Unit Terms and Conditions

1. Emissions Unit Group -CAT Engine Group: P001, P002, P003,

EU ID	Operations, Property and/or Equipment Description
P001	Caterpillar G3520C P001
P002	Caterpillar G3520C P002
P003	Caterpillar G3520C P003

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) b)(1)k., d)(2), d)(3), d)(4), d)(5), and e)(3), below.

b) Applicable Emissions Limitations and/or Control Requirements

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

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-31-05(A)(3) (PTIO P0107266 Administrative Modification Issued January 6, 2011)	Nitrogen oxides (NOx) emissions shall not exceed 0.60 grams per horse power-hour, 2.95lbs per hour, and 12.92 tons per year. Carbon monoxide (CO) emissions shall not exceed 3.0 grams per horse power-hour, 14.8 lbs per hour, and 64.82 tons per year. See Sections b)(2)a., c)(1), (2), and (4), d)(5), (7), (9), and (10), e)(2), f)(1)a., and f)(2), below.
b.	OAC rule 3745-31-05(D) (to avoid the applicability of 40 CFR Part 60 Subpart ZZZZ)	The Hazardous Air Pollutant emissions shall not exceed 9.0 tons per rolling 12-month period for any individual HAP or 24.0 tons per rolling 12-month period for combined HAP's. See Sections b)(2)d, d)(1), and e)(2), below
c.	OAC rule 3745-31-05(A)(3)(a)(ii), as effective 12/01/06.	See b)(2)b, below.
d.	OAC paragraph 3745-31-05(A)(3), as effective 11/30/01	Hourly emissions shall not exceed the following:

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
		1.15 pounds of sulfur dioxide (SO2); 0.102 pounds of particulate emissions (PE); and 1.0 grams of volatile organic compound (VOC) per horse power-hour. See Sections b)(2)(c), b)(2)f., f)(1)b., f)(1)c., f)(1)e., and f)(2), below.
e.	OAC rule 3745-17-11 (B)(5)(b)	0.062 lb of particulate emissions (PE) per mmBtu actual heat input See Sections f)(1)b, and f)(2), below.
f.	OAC rule 3745-17-07 (A)(1)	Visible PE shall not exceed 20% opacity, as a six minute average, except as provided by rule. See Sections d)(8), e)(5), and f)(1)d, below.
g.	OAC rule 3745-18-06(G)	0.5 lb Sulfur dioxide (SO2) per mmBtu actual heat input. See Section f)(1)c, and f)(2), below.
h.	OAC rule 3745-110-03(F)(2)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
i.	40 CFR Part 60, Subpart JJJJ	Volatile organic compound (VOC) emissions shall not exceed 1.0 gram per horse power-hour. The emission limits established by this rule for NOx and CO are less stringent than the emission limitations established for NOx and CO pursuant to OAC rule 3745-31-05(A)(3). See Sections c)(6), d)(6), e)(4), and f)(2), below.
j.	40 CFR Part 60, Subpart WWW	See Sections b)(2)c., c)(3), c)(4), c)(5), and f)(2), below
k.	OAC rule 3745-114-01	Ohio Toxic Rule See Sections d)(2), d)(3), d)(4), d)(5), and e)(3), below.

(2) Additional Terms and Conditions

a. The "Best Available Technology" (BAT) control requirement for this emissions unit has been determined to be the use of "lean burn technology". BAT requirements also include compliance with the terms and conditions of this permit.

b. The BAT requirements under OAC rule 3745-31-05(A)(3) do not apply to the SO2, VOC, and PM10 emissions from this air contaminant source since the uncontrolled potential to emit for SO2, VOC, and PM10 are each less than ten tons per year.

The PTE for SO2 for this emissions unit is 5.10 tons per year and was determined by assuming the total sulfur content in the landfill gas is converted to SO2. The sulfur concentration in the landfill gas was determined by the method outlined in AP-42 section 2.4.4.2.

The PTE for VOC for this emissions unit is 3.64 tons per year and was determined based on a relationship between oxygen and hexane in the exhaust gas.

The PTE for PM10 for this emissions unit is 4.47 tons per year and was determined by multiplying manufacturer's maximum heat input of 16.47 mm Btu/hr, particulate emission limit of OAC rule 3745-17-11 (B)(5)(b) (0.062 lb/mmBtu), a maximum operating schedule of 8,760 hr/yr and dividing by 2000 lbs/ton.

This 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, (SIP). This is following Ohio EPA's guidance to provide clarification.

c. 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 pollutants less than ten tons per year. However, that rule revision has not yet been approved by the 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 the 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.

d. This emissions unit receives landfill gas from the Cherokee Run Landfill which is subject to the control requirements in 40 CFR Part 60, Subpart WWW. Therefore control requirements under 40 CFR Part 60, Subpart WWW apply to this emissions unit. Emissions units P001, P002, and P003 shall meet the specifications for a control system on an active collection system as required in 40 CFR 60.752, included in this permit.

e. The actual usage of Hazardous Air Pollutants (HAPs), as identified in Section 112(b) of Title III of the Clean Air Act, from all non-insignificant emissions units at this facility shall not exceed 9.0 TPY for any single HAP and 24.0 TPY for any combination of HAPs. Compliance with the above limitations shall be based on a rolling, 12-month summation.

f. The hourly limitations of 1.15 pounds of sulfur dioxide (SO2), 0.102 pounds of particulate emissions (PE), and 1.0 grams of volatile organic compound (VOC) per horse power-hour from this emissions unit is established to reflect the potential emissions from this emissions unit. Therefore, it is not necessary to establish record keeping and reporting requirements to ensure compliance with this limitation.

c) Operational Restrictions

(1) This emissions unit shall be designed and maintained in such a manner to burn only landfill gas.

[OAC rule 3745-77-07(A)(1) and PTIO P0107266]

(2) The permittee shall install, calibrate, maintain and operate according to the manufacturer's specifications a device at the inlet to the internal combustion engine which completely shuts off gas flow to the internal combustion engine when the internal combustion engine is not operating.

[OAC rule 3745-77-07(A)(1) and PTIO P0107266]

(3) All landfill gas supplied to this facility shall be employed as fuel in emissions units P001, P002, and P003. These emissions units shall be operated to comply with 40 CFR 60, Subpart WWW in accordance with the provisions of 40 CFR sections 60.752, 60.755, and 60.756, which are reflected in this permit. No uncontrolled landfill gas shall be vented to the ambient air.

[OAC rule 3745-77-07(A)(1) and PTIO P0107266]

(4) Prior to landfill gas combusted in this emissions unit, the fuel shall be route to a treatment system. The treatment system shall ensure that materials such as moisture, particulate matter and other impurities, which have the potential to adversely affect the combustion, are removed from the fuel. The landfill gas treatment system shall be maintained and operated in such a manner as to not create additional regulated air pollution emissions.

[OAC rule 3745-77-07(A)(1) and PTIO P0107266]

(5) All emissions from any atmospheric vent shall be vented to:

a. An open flare designed and operated in accordance with 40 CFR section 60.18, except as noted in 40 CFR section 60.754(e); or

b. introduced into the flame zone of a generator that will reduced the non-methane organic compound (NMOC) by at least 98 weight-percent or reduce the outlet

NMOC concentration to less than 20 ppm by volume dry basis as hexane at 3 percent oxygen.

[OAC rule 3745-77-07(A)(1) and PTIO P0107266]

(6) In accordance with 40 CFR section 60.4243(A)(2)(iii), the permittee shall conducted maintenance in a manner to minimize emissions.

d) Monitoring and/or Recordkeeping Requirements

(1) The permittee shall collect and record the following information each month for the HAP(s) emitted from emissions units; P001, P002, and P003:

a. the amount of landfill gas combusted, in millions of cubic feet, (mmcf);

b. the estimated concentration of highest individual HAP emitted, in pounds per million cubic feet, (at present Hydrogen Chloride (HCl) is estimated to have the highest concentration at 11.95 lbs/mmcf*);

c. the estimated highest individual HAP emissions, in tons per month, (the sum of (a) times (b) divided by 2000);

d. the estimated concentration of combined HAP's emitted, in pounds per million cubic feet, (at present combined HAP's concentration is estimated to have the highest concentration at 13.81 lbs/mmcf*);

e. the estimated combined HAP's emissions, in tons per month, (the sum of (a) times (d) divided by 2000);

f. the updated rolling, 12-month summation of highest individual HAP emitted , in tons. This shall be the sum for the current month (c) and the preceding eleven calendar months; and

g. the updated rolling, 12-month summation of combined HAP's emitted , in tons. This shall be the sum for the current month (e) and the preceding eleven calendar months.

* This concentration is based on the application data and may be modified in the future based on stack test results and/or as future emissions data become available.

(2) The permit-to-install (PTI), for this emissions unit 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. 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: Hydrogen chloride (HCl)

   TLV (mg/m3): 3.0

   Maximum Hourly Emission Rate (lbs/hr): 0.64

   Predicted 1-Hour Maximum Ground-Level Concentration (ug/m3): 0.017

   MAGLC (ug/m3): 300

The permittee, has demonstrated that emissions of Hydrogen chloride (HCl), from this emissions unit, 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).

[ORC 3704.03(F)(3)(c) and F(4), OAC rule 3745-114-01 Option A, Engineering Guide #70 and PTIO P0107266]

(3) 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.

[ORC 3704.03(F)(3)(c) and F(4), OAC rule 3745-114-01 Option A, Engineering Guide #70 and PTIO P0107266]

(4) 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.

[ORC 3704.03(F)(3)(c) and F(4), OAC rule 3745-114-01 Option A, Engineering Guide #70 and PTIO P0107266]

(5) 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.

[ORC 3704.03(F)(3)(c) and F(4), OAC rule 3745-114-01 Option A, Engineering Guide #70 and PTIO P0107266]

(6) In accordance with 40 CFR section 60.4243(A)(2)(iii), the permittee shall maintain the following records:

a. All notifications submitted to comply with this subpart and all documentation supporting any notification.

b. Maintenance conducted on the engine.

c. Documentation that demonstrates that each engine will meet the emission standards and information as required in 40 CFR parts 90 and 1048.

(7) The permittee shall maintain records demonstrating any occurrence when landfill gas is vented directly to the ambient air. These records shall include the following:

a. The date and time of the occurrence;

b. The duration of the occurrence, in hours;

c. The cause of the occurrence; and

d. The proactive and corrective steps taken to minimize the occurrence and to prevent future occurrences.

(8) The permittee shall perform weekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible PE from the stack(s) serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operational log. If visible emissions are observed, the permittee shall also note the following in the operational log;

a. The color of the emissions;

b. The total duration of any visible emission incident; and

c. Any corrective actions taken to eliminate the visible emissions.

(9) The permittee shall properly install, calibrate and maintain an engine combustion chamber temperature monitoring device equipped with a continuous recorder and having a minimum accuracy of +/- 1 percent of the temperature being measured expressed in degrees Fahrenheit or +/- 30.0 degrees Fahrenheit, whichever is greater. When

demonstrating compliance with 40 CFR 60.752(b)(2)(iii)(B), landfill gas control, the temperatures shall be monitored at all times.

[40 CFR 60.756(b), OAC rule 3745-77-07(C)(1) and PTI P0107266]

(10) When demonstrating compliance with 40 CFR 60.752(b)(2)(iii)(B), landfill gas control, the permittee shall collect and record each day all 3-hour blocks of time during which the average combustion chamber temperature within the internal combustion engine was less than the allowable minimum operating temperature as established during the most recent compliance test.

[40 CFR 60.756(b), OAC rule 3745-77-07(C)(1) and PTIO P0107266]

e) Reporting Requirements

(1) Any breakdown or malfunction resulting in the emission of raw and/or treated landfill gas to the atmosphere shall be reported to the Southwest District Office of the Ohio EPA within one hour after the occurrence, or as soon as reasonably possible, and immediate remedial measures shall be undertaken to correct the problem and prevent further emissions to the atmosphere.

[OAC rule 3745-77-07(C)(1) and PTIO P0107266]

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

a. the facility-wide rolling, 12-month individual HAP emission exceeds 9.0 tons, from all materials employed at this facility;

b. the facility-wide rolling, 12-month combined HAP emission exceeds 24.0 tons, from all materials employed at this facility; and

c. the established acceptable combustion temperature range.

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

[OAC rule 3745-15-03(B)(1)(a), OAC rule 3745-15-03(C), OAC rule 3745-77-07(C)(1) and PTIO P0107266]

(3) The permittee shall submit annual reports to the appropriate Ohio EPA District Office or local air agency, 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.

[ORC 3704.03(F)(3)(c) and F(4), OAC rule 3745-114-01 Option A, Engineering Guide #70 and PTI P0107266]

(4) The permittee shall submit semiannual written reports that:

a. Identify all days during which any visible PE were observed from any stack serving this emissions unit;

b. Identify all days during which any visible fugitive PE were observed from any egress point (i.e., building windows, doors, roof monitors, etc...) serving this emissions unit; and

c. Describe the corrective actions taken to eliminate the visible PE.

d. When demonstrating compliance with 40 CFR 60.752(b)(2)(iii)(B), landfill gas control, identify the date(s) and duration of each 3-hour block of time when the average temperature within the internal combustion engine did not meet the minimum temperature requirements.

[OAC rule 3745-77-07(C)(1) and PTI P0107266]

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

f) Testing Requirements

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

a. Emission Limitation:

0.6 grams of NOx/hp-hr, 12.92 tons NOx/yr

14.8 lbs CO/hr, 64.82 tons CO/yr

<u>Applicable Compliance Method</u>:

Compliance with the hourly mass emission limitations shall be demonstrated by the performance testing required in condition f)(2). The annual emission limitations were developed by multiplying the respective hourly emission limitations by the maximum operating schedule of 8760 hours/year, and then dividing by 2000 lbs/ton. Therefore, if compliance is shown with the hourly limitations, compliance with the annual limitations will be assumed.

b. Emission Limitation:

0.102 pounds of PE per hour; and

0.062 pounds of PE/mmBtu actual heat input.

The above hourly limitation is based on the following equation:

HER = M Btu x Ef

Where:

HER = Hourly emission rate, in pounds per hour;

M Bbtu = Maximum BTU heat input, in mmBtu per hour;

Ef = Emission factor, in pounds of PE emitted per mmBtu heat input.

Applicable Compliance Method:

The potential to emit* for this emissions unit is 0.062 lb PE/mmBtu and complies with the lb/mmBtu emission limitation. Therefore no record keeping, deviation reporting, or compliance method calculations are required to demonstrate compliance with this limitation.

*Potential to emit for this emissions unit was established by the manufacturer's published maximum heat input specifications of 16.47 mmBtu/hr and the particulate emission limit of OAC rule 3745-17-11(B)(5)(b).

If required, the permittee shall demonstrate compliance by testing in accordance with Methods 1 - 5 of 40 CFR Part 60, Appendix A.

c. Emission Limitation:

1.15 pounds of SO2 per hour; and

0.5 lb SO2/mmBtu actual heat input.

The above hourly limitation is based on the following equation:

HER = M Btu x Ef

Where:

HER = Hourly emission rate, in pounds per hour;

M Btu = Maximum BTU heat input, in mmBtu per hour;

Ef = Emission factor, in pounds of SO2 emitted per mmBtu heat input.

Applicable Compliance Method:

The potential to emit* for this emissions unit is 0.07 lb SO2/mmBtu and complies with the lb/mmBtu emission limitation. Therefore no record keeping, deviation reporting, or compliance method calculations are required to demonstrate compliance with this limitation.

The potential to emit for SO2 was determined assuming the total sulfur content in the landfill gas is converted to SO2. The sulfur concentration in the landfill gas was determined by the method outlined in AP-42 section 2.4.4.2.

If required, the permittee shall demonstrate compliance by testing in accordance with Methods 1- 4 and 6 of 40 CFR Part 60, Appendix A.

d. Emission Limitation:

Visible PE shall not exceed 20% opacity, as a six-minute average, except as specified by rule

Applicable Compliance Method:

If required, 40 CFR Part 60, Method 9, with opacity readings taken from the stack.

e. Emission Limitation:

Volatile organic compound (VOC) emissions shall not exceed 1.0 grams per horse power-hour.

Applicable Compliance Method:

Compliance with the hourly mass emission limitations shall be demonstrated by the performance testing required in condition f)(2).

If required, the permittee shall demonstrate compliance by testing in accordance with Methods 1 through 4 and Method 18, 25, 25a or 25c, as applicable, of 40 CFR, Part 60, Appendix A.

[OAC rule 3745-77-07(C)(1) and PTI P0107266]

(2) The permittee shall conduct, or have conducted, emission testing for this emissions unit in accordance with the following requirements:

a. The emissions testing shall be conducted within 12 months prior to the expiration of this facility's initial Title V permit or within 6 years after the issuance date of this permit, whichever comes first.

b. Each performance test must be conducted within 10 percent of 100 percent peak (or the highest achievable) load unless otherwise specified or approved by the Ohio EPA, SWDO.

c. The emission testing shall be conducted to demonstrate compliance with the allowable mass emission rates for; NO_x, CO, VOC, PE, and SO2.

d. The following test methods shall be employed to demonstrate compliance with the allowable mass emission rates:

i. 0.60 grams per horse power-hour of NO_x, Methods 1 through 4 and 7 of 40 CFR, Part 60, Appendix A;

ii. 3.0 grams per horse power-hour of CO, Methods 1 through 4 and 10 of 40 CFR, Part 60, Appendix A;

iii. 1.0 grams per horse power-hour of VOC, Methods 1 through 4 and Method 18, 25, 25a or 25c, as applicable, of 40 CFR, Part 60, Appendix A,

iv. 0.062 lb of particulate emissions (PE) per mmBtu actual heat input, Methods 1 - 5 of 40 CFR Part 60, Appendix A;

v. 0.5 lb SO2/mmBtu actual heat input, Methods 1 – 4, and 6 of 40 CFR Part 60, Appendix A; and

vi. including any additional requirements as specified by 40 CFR Part 60, Subpart JJJJ and/or Subpart WWW.

Alternative U.S. EPA-approved test methods may be used with prior approval from the Ohio EPA.

e. Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Ohio EPA, SWDO. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the tests, and the person(s) who will be conducting the tests. Failure to submit such notification for review and approval prior to the tests may result in the Ohio EPA's refusal to accept the results of the emission tests.

Personnel from the Ohio EPA shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

A comprehensive written report on the results of the emissions tests shall be signed by the person or persons responsible for the tests and submitted to the Ohio EPA, SWDO within 30 days following completion of the tests. The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the Ohio EPA SWDO.

[OAC rule 3745-77-07(C)(1) and PTI P0107266]

(3) In accordance with 40 CFR section 60.4243(A)(2)(iii), the permittee shall conducted initial performance test within 1 year of engine startup and conduct subsequent performance testing every 8,760 hours or 3 years, whichever comes first, thereafter to demonstrate compliance.

In accordance with 40 CFR section 60.4245(d), the permittee shall submit a copy of each performance test conducted under 40 CFR section 60.4244 within 60 days after the test has been completed.

[OAC rule 3745-77-07(C)(1) and PTI P0107266]

g) Miscellaneous Requirements

(1) None.